


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> 16-1D-46 BTR			
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> ALTAMONT			
<b>4. TYPE OF WELL</b> Oil Well <input type="checkbox"/> Coalbed Methane Well: NO <input type="checkbox"/>						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>			
<b>6. NAME OF OPERATOR</b> BILL BARRETT CORP						<b>7. OPERATOR PHONE</b> 303 312-8164			
<b>8. ADDRESS OF OPERATOR</b> 1099 18th Street Ste 2300, Denver, CO, 80202						<b>9. OPERATOR E-MAIL</b> dspencer@billbarrettcorp.com			
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> 20G0005608			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b>			
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b>						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>			
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b> Ute			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>			
<b>20. LOCATION OF WELL</b>	<b>FOOTAGES</b>		<b>QTR-QTR</b>	<b>SECTION</b>	<b>TOWNSHIP</b>	<b>RANGE</b>	<b>MERIDIAN</b>		
<b>LOCATION AT SURFACE</b>	472 FSL 1305 FEL		SESE	1	4.0 S	6.0 W	U		
<b>Top of Uppermost Producing Zone</b>	590 FSL 897 FEL		SESE	1	4.0 S	6.0 W	U		
<b>At Total Depth</b>	660 FSL 660 FEL		SESE	1	4.0 S	6.0 W	U		
<b>21. COUNTY</b> DUCESNE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 660			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 160			
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 4520			<b>26. PROPOSED DEPTH</b> MD: 8561 TVD: 8500			
<b>27. ELEVATION - GROUND LEVEL</b> 6020			<b>28. BOND NUMBER</b> LPM 8874725			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> Duchesne City Culinary Water Dock			

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	26	16	0 - 80	65.0	Unknown	8.8	Unknown	0	0.0	0.0
Surf	12.25	9.625	0 - 2000	36.0	J-55 ST&C	8.8	Halliburton Light , Type Unknown	280	3.16	11.0
							Halliburton Premium , Type Unknown	210	1.36	14.8
Prod	8.75	5.5	0 - 8561	17.0	P-110 LT&C	9.7	Unknown	710	2.31	11.0
							Unknown	750	1.42	13.5

ATTACHMENTS	
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>	
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP
<b>NAME</b> Tracey Fallang	<b>TITLE</b> Regulatory Manager
<b>SIGNATURE</b>	<b>DATE</b> 04/12/2011
<b>PHONE</b> 303 312-8134	<b>EMAIL</b> tfallang@billbarrettcorp.com
<b>API NUMBER ASSIGNED</b> 43013506750000	<b>APPROVAL</b>  Permit Manager



**DRILLING PLAN**

BILL BARRETT CORPORATION

**16-1D-46 BTR Well Pad**

SESE, 472' FSL, 1305' FEL, Section 1, T4S, R6W, USB&amp;M (surface hole)

SESE, 660' FSL, 660' FEL, Section 1, T4S, R6W, USB&amp;M (bottom hole)

Duchesne County, Utah

**1 - 2. Estimated Tops of Geological Markers and Formations Expected to Contain Water, Oil and Gas and Other Minerals**

<b><u>Formation</u></b>	<b><u>Depth – MD</u></b>	<b><u>Depth – TVD</u></b>
Lower Green River	4518'*	4480'*
Douglas Creek	5409'	5355'
Black Shale	6271'	6210'
Castle Peak	6491'	6430'
Wasatch	6981'*	6920'*
TD	8561'	8500'

\*PROSPECTIVE PAY

The Wasatch and the Lower Green River are primary objectives for oil/gas.

**3. BOP and Pressure Containment Data**

<b><u>Depth Intervals</u></b>	<b><u>BOP Equipment</u></b>
0 – 2000'	No pressure control required
2000' – TD	11" 5000# Ram Type BOP 11" 5000# Annular BOP
- Drilling spool to accommodate choke and kill lines;	
- Ancillary equipment and choke manifold rated at 5,000 psi. All BOP and BOPE tests will be in accordance with the requirements of onshore Order No. 2;	
- The BLM and the State of Utah Division of Oil, Gas and Mining will be notified 24 hours in advance of all BOP pressure tests.	
- BOP hand wheels may be underneath the sub-structure of the rig if the drilling rig used is set up To operate most efficiently in this manner.	

**4. Casing Program**

<b><u>Hole Size</u></b>	<b><u>SETTING DEPTH</u></b>		<b><u>Casing Size</u></b>	<b><u>Casing Weight</u></b>	<b><u>Casing Grade</u></b>	<b><u>Thread</u></b>	<b><u>Condition</u></b>
	<b><u>(FROM)</u></b>	<b><u>(TO)</u></b>					
26"	Surface	80'	16"	65#			
12 1/4"	surface	2000'	9 5/8"	36#	J or K 55	BT&C	New
8-3/4"	surface	TD	5 1/2"	17#	P-110	LT&C	New
Note: BBC will use one of the options of production casing size noted above. In addition, the 7 7/8" hole size will begin at the point the bit is changed.							



Bill Barrett Corporation  
Drilling Program  
#16-1D-46 BTR  
Duchesne County, Utah

### 5. Cementing Program

<u>Casing</u>	<u>Cement</u>
16" Conductor Casing	Grout
9 5/8" Surface Casing	<p><i>Lead</i> with approximately 280 sx Halliburton Light Premium with additives mixed at 11.0 ppg (yield = 3.16 ft<sup>3</sup>/sx) circulated to surface with 75% excess.</p> <p><i>Tail</i> with approximately 210 sx Halliburton Premium cement with additives mixed at 14.8 ppg (yield = 1.36 ft<sup>3</sup>/sx). Calculated hole volume with 75% excess.</p>
5 1/2" Production Casing	<p><i>Lead</i> with approximately 710 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx).</p> <p><i>Tail</i> with approximately 750 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned TOC at 1500'.</p>
Note: Actual volumes to be calculated from caliper log.	

### 6. Mud Program

<u>Interval</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Fluid Loss (API filtrate)</u>	<u>Remarks</u>
0' – 80'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
80' – 2000'	8.3 – 8.8	26 – 36	NC	Freshwater Spud Mud Fluid System
2000' – TD	8.6 – 9.7	42 – 52	20 cc or less	DAP Polymer Fluid System
Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

### 7. Testing, Logging and Core Programs

Cores	None anticipated
Testing	None anticipated; drill stem tests may be run on shows of interest;
Sampling	30' to 50' samples; surface casing to TD. Preserve samples all show intervals;
Surveys	MWD as needed to land wellbore;
Logging	DIL-GR-SP, FDC-CNL-GR-CALIPER-Pe-Microlog, Sonic-GR (all TD to surface). FMI & Sonic Scanner to be run at geologist's discretion.



Bill Barrett Corporation  
Drilling Program  
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**8. Anticipated Abnormal Pressures or Temperatures**

No abnormal pressures or temperatures or other hazards are anticipated.

Maximum anticipated bottom hole pressure equals approximately 4287 psi\* and maximum anticipated surface pressure equals approximately 2417 psi\*\* (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

\*Max Mud Wt x 0.052 x TD = A (bottom hole pressure)

\*\*Maximum surface pressure = A – (0.22 x TD)

**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
- c) Safety valve(s) and subs to fit all string connections in use
- d) Mud monitoring will be visually observed

**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction:	Fall 2011
Spud:	Fall 2011
Duration:	15 days drilling time
	45 days completion time



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Drilling Program  
#16-1D-46 BTR  
Duchesne County, Utah

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5 1/2" Production Casing	<p><i>Lead</i> with approximately 710 sx Tuned Light cement with additives mixed at 11.0 ppg (yield = 2.31 ft<sup>3</sup>/sx).</p> <p><i>Tail</i> with approximately 750 sx Halliburton Econocem cement with additives mixed at 13.5 ppg (yield = 1.42 ft<sup>3</sup>/sx). Planned TOC at 1500'.</p>
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Note: Sufficient mud materials to maintain mud properties, control lost circulation and to contain "kicks" will be available at wellsite. BBC may require minor amounts of diesel to be added to its fluid system in order to reduce torque and drag.				

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Surveys	MWD as needed to land wellbore;
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Bill Barrett Corporation  
Drilling Program  
# 16-1D-46 BTR  
Duchesne County, Utah

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**9. Auxiliary Equipment**

- a) Upper kelly cock; lower Kelly cock will be installed while drilling
- b) Inside BOP or stab-in valve (available on rig floor)
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**10. Location and Type of Water Supply**

Water for the drilling and completion will be trucked from the Duchesne City Culinary Water Dock located in Sec. 1, T4S, R5W.

**11. Drilling Schedule**

Location Construction:	Fall 2011
Spud:	Fall 2011
Duration:	15 days drilling time 45 days completion time



**PRESSURE CONTROL EQUIPMENT – Schematic Attached**

**A. Type: Eleven (11) Inch Double Gate Hydraulic BOP with Eleven (11) Inch Annular Preventer.** The blow out preventer will be equipped as follows:

1. One (1) blind ram (above).
2. One (1) pipe ram (below).
3. Drilling spool with two (2) side outlets (choke side 3-inch minimum, kill side 2-inch minimum).
4. 3-inch diameter choke line.
5. Two (2) choke line valves (3-inch minimum).
6. Kill line (2-inch minimum).
7. Two (2) chokes with one (1) remotely controlled from the rig floor.
8. Two (2) kill line valves, and a check valve (2-inch minimum).
9. Upper and lower kelly cock valves with handles available.
10. Safety valve(s) & subs to fit all drill string connections in use.
11. Inside BOP or float sub available.
12. Pressure gauge on choke manifold.
13. Fill-up line above the uppermost preventer.

**B. Pressure Rating:** 5,000 psi

**C. Testing Procedure:**

Annular Preventer

At a minimum, the Annular Preventer will be pressure tested to 50% of the rated working pressure for a period of ten (10) minutes or until provisions of the test are met, whichever is longer.

At a minimum the above pressure test will be performed:

1. When the annular preventer is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition, the Annular Preventer will be functionally operated at least weekly.

Blow-Out Preventer

At a minimum, the BOP, choke manifold, and related equipment will be pressure tested to the approved working pressure of the BOP stack (if isolated from the surface casing by a test plug) or to 70% of the internal yield strength of the surface casing (if the BOP is not isolated from the casing by a test plug). Pressure will be



maintained for a period of at least ten (10) minutes or until the requirements of the test are met, whichever is longer.

At a minimum, the above pressure test will be performed:

1. When the BOP is initially installed;
2. Whenever any seal subject to test pressure is broken;
3. Following related repairs; and
4. At thirty (30) day intervals.

In addition the pipe and blind rams will be activated each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log.

**D. Choke Manifold Equipment:**

All choke lines will be straight lines unless turns use tee blocks or are targeted with running tees, and will be anchored to prevent whip and vibration.

**E. Accumulator:**

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer, and retain a minimum of 200 psi above precharge on the closing manifold without the use of closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close the preventers. Nitrogen bottles (3 minimum) will be one (1) of these independent power sources and will maintain a charge equal to the manufacturer's specifications.

The accumulator precharge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured precharge pressure is found to be above or below the maximum or minimum limits specified in the *Onshore Oil & Gas Order Number 2*.

A manual locking device (i.e. hand wheels) or automatic locking device will be installed on all systems of 2M or greater. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve will be maintained in the open position and will be closed only when the power source for the accumulator is inoperative.



Remote controls shall be readily accessible to the driller. Remote controls for all 3M or greater systems will be capable of closing all preventers. Remote controls for 5M or greater systems will be capable of both opening and closing all preventers. Master controls will be at the accumulator and will be capable of opening and closing all preventers and the choke line valve (if so equipped).

**F. Miscellaneous Information:**

The Blow-Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in and requirements of *Onshore Oil & Gas Order Number 2*. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head but readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

A flare line will be installed after the choke manifold, extending 125 feet (minimum) from the center of the drill hole to a separate flare pit.





# Bill Barrett Corporation

## LAKE CANYON & BLACK TAIL RIDGE CEMENT VOLUMES

2/18/2011

**Well Name:** 16-1D-46 BTR

### Surface Hole Data:

Total Depth:	2,000'
Top of Cement:	0'
OD of Hole:	12.250"
OD of Casing:	9.625"

### Calculated Data:

Lead Volume:	822.1	ft <sup>3</sup>
Lead Fill:	1,500'	
Tail Volume:	274.0	ft <sup>3</sup>
Tail Fill:	500'	

### Cement Data:

Lead Yield:	3.16	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Lead:	0'	

### Calculated # of Sacks:

# SK's Lead:	280
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Tail Yield:	1.36	ft <sup>3</sup> /sk
% Excess:	75%	
Top of Tail:	1,500'	

# SK's Tail:	210
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### Production Hole Data:

Total Depth:	8,560'
Top of Cement:	1,500'
Top of Tail:	5,771'
OD of Hole:	8.750"
OD of Casing:	5.500"

### Calculated Data:

Lead Volume:	1618.2	ft <sup>3</sup>
Lead Fill:	4,271'	
Tail Volume:	1056.8	ft <sup>3</sup>
Tail Fill:	2,789'	

### Cement Data:

Lead Yield:	2.31	ft <sup>3</sup> /sk
Tail Yield:	1.42	ft <sup>3</sup> /sk
% Excess:	50%	

### Calculated # of Sacks:

# SK's Lead:	710
# SK's Tail:	750

RECEIVED: Apr. 12, 2011



<b>16-1D-46 BTR Proposed Cementing Program</b>
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<u>Job Recommendation</u>	<u>Surface Casing</u>
<b>Lead Cement - (1500' - 0')</b>	
Halliburton Light Premium	Fluid Weight: 11.0 lbm/gal
5.0 lbm/sk Silicalite Compacted	Slurry Yield: 3.16 ft <sup>3</sup> /sk
0.25 lbm/sk Kwik Seal	Total Mixing Fluid: 19.48 Gal/sk
0.125 lbm/sk Poly-E-Flake	Top of Fluid: 0'
2.0% Bentonite	Calculated Fill: 1,500'
	Volume: 146.41 bbl
	<b>Proposed Sacks: 280 sks</b>
<b>Tail Cement - (TD - 1500')</b>	
Premium Cement	Fluid Weight: 14.8 lbm/gal
2.0% Calcium Chloride	Slurry Yield: 1.36 ft <sup>3</sup> /sk
	Total Mixing Fluid: 6.37 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 500'
	Volume: 48.80 bbl
	<b>Proposed Sacks: 210 sks</b>

<u>Job Recommendation</u>	<u>Production Casing</u>
<b>Lead Cement - (5771' - 1500')</b>	
Tuned Light <sup>TM</sup> System	Fluid Weight: 11.0 lbm/gal
	Slurry Yield: 2.31 ft <sup>3</sup> /sk
	Total Mixing Fluid: 10.65 Gal/sk
	Top of Fluid: 1,500'
	Calculated Fill: 4,271'
	Volume: 288.20 bbl
	<b>Proposed Sacks: 710 sks</b>
<b>Tail Cement - (8560' - 5771')</b>	
Econocem <sup>TM</sup> System	Fluid Weight: 13.5 lbm/gal
0.125 lbm/sk Poly-E-Flake	Slurry Yield: 1.42 ft <sup>3</sup> /sk
1.0 lbm/sk Granulite TR 1/4	Total Mixing Fluid: 6.61 Gal/sk
	Top of Fluid: 5,771'
	Calculated Fill: 2,789'
	Volume: 188.21 bbl
	<b>Proposed Sacks: 750 sks</b>



T4S, R6W, U.S.B.&M.

BILL BARRETT CORPORATION

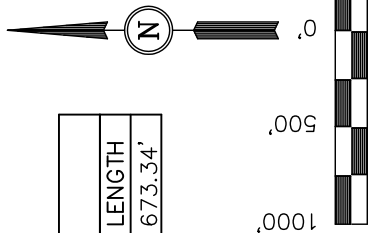
Well location, #16-1D-46 BTR, located as shown in the SE 1/4 SE 1/4 of Section 1, T4S, R6W, U.S.B.&M., Duchesne County, Utah.



BASIS OF ELEVATION

BENCH MARK (M67) LOCATED IN THE SW 1/4 OF SECTION 9, T5S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE SE, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 6097 FEET.

LINE TABLE		
LINE	DIRECTION	LENGTH
L1	N74°03'24"E	673.34'



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE POINT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY CLOSE SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**KAY ROBERTS**  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

<b>UINTAH ENGINEERING &amp; LAND SURVEYING</b>	
85 SOUTH 200 EAST - VERNAL, UTAH 84078	
(435) 789-1017	
SCALE 1" = 1000'	DATE SURVEYED: 10-19-10
PARTY A.F. J.C. K.G.	DATE DRAWN: 11-17-10
WEATHER COOL	REFERENCES G.L.O. PLAT
FILE BILL BARRETT CORPORATION	

**LEGEND:**

- = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED.

(Not Set on Ground.)

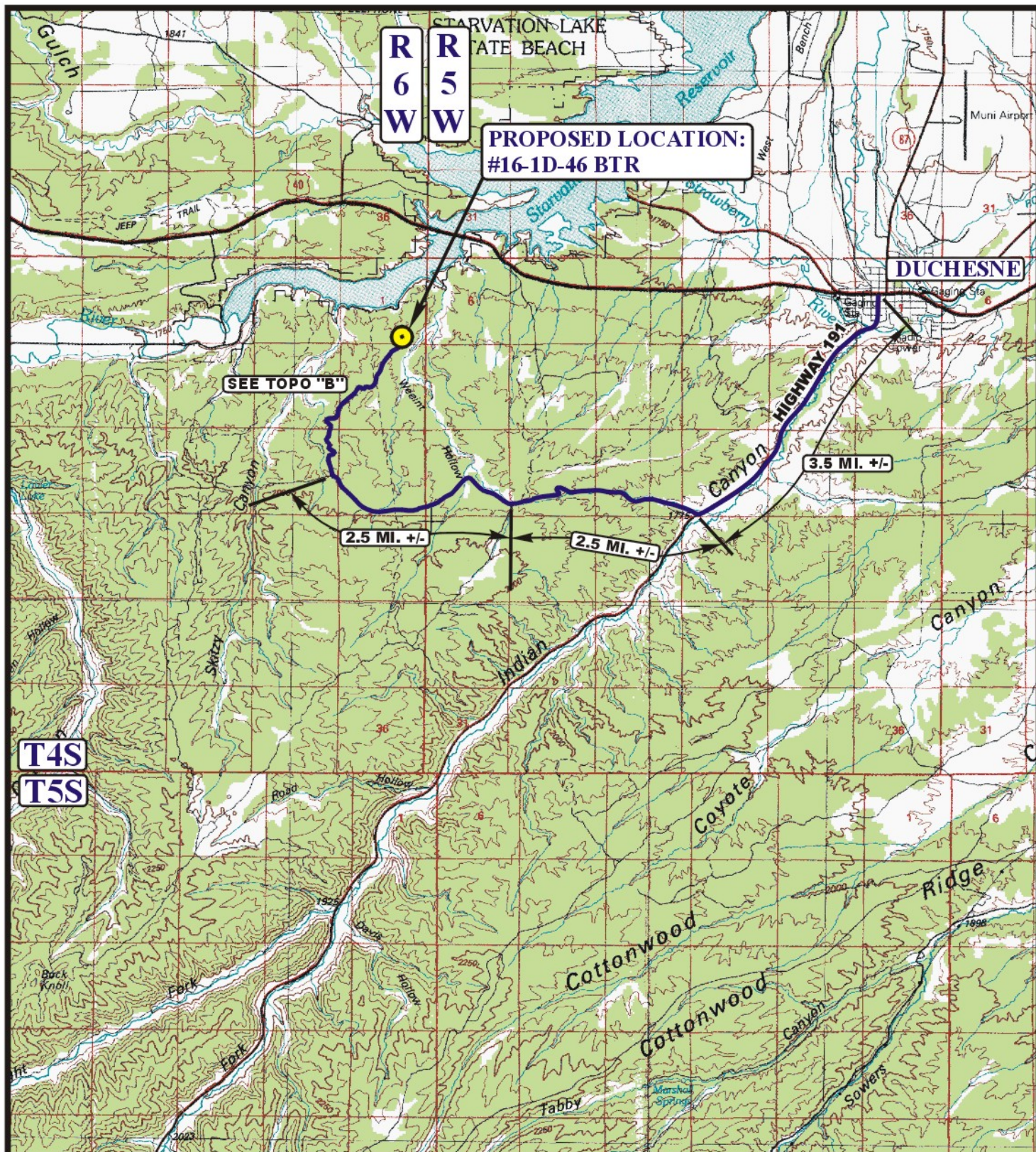
**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

NAD 83 (TARGET BOTTOM HOLE)	NAD 83 (SURFACE LOCATION)
LATITUDE = 40°09'23.31" (40.156475)	LATITUDE = 40°09'21.47" (40.155964)
LONGITUDE = 110°30'16.10" (110.504472)	LONGITUDE = 110°30'24.44" (110.506789)

NAD 27 (TARGET BOTTOM HOLE)	NAD 27 (SURFACE LOCATION)
LATITUDE = 40°09'23.46" (40.156517)	LATITUDE = 40°09'21.62" (40.156006)
LONGITUDE = 110°30'13.54" (110.503761)	LONGITUDE = 110°30'21.88" (110.506078)





**LEGEND:**

● PROPOSED LOCATION

**BILL BARRETT CORPORATION**

**#16-1D-46 BTR**  
**SECTION 1, T4S, R6W, U.S.B.&M.**  
**472' FSL 1305' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



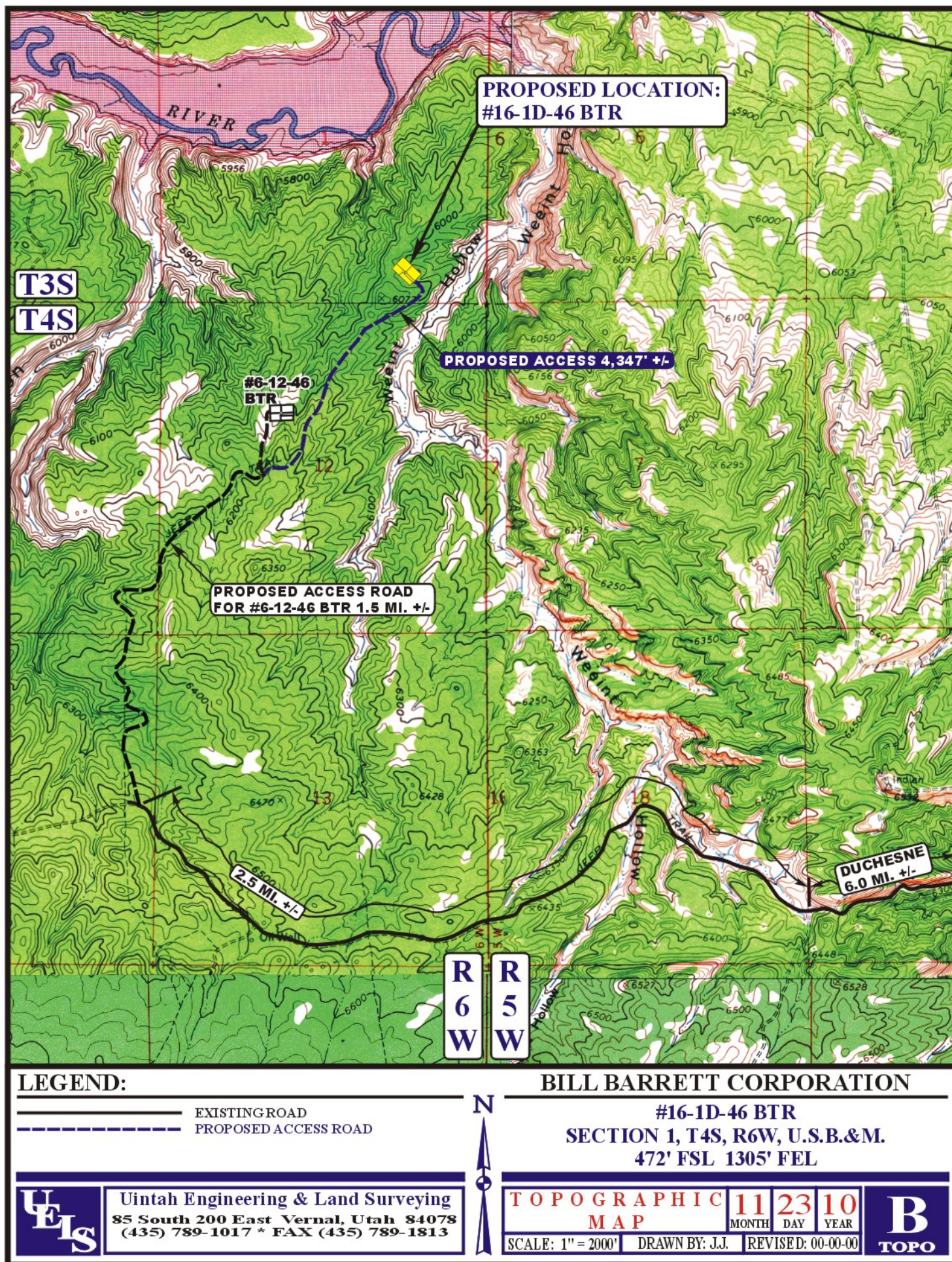
**TOPOGRAPHIC**  
**MAP**

**11 23 10**  
 MONTH DAY YEAR

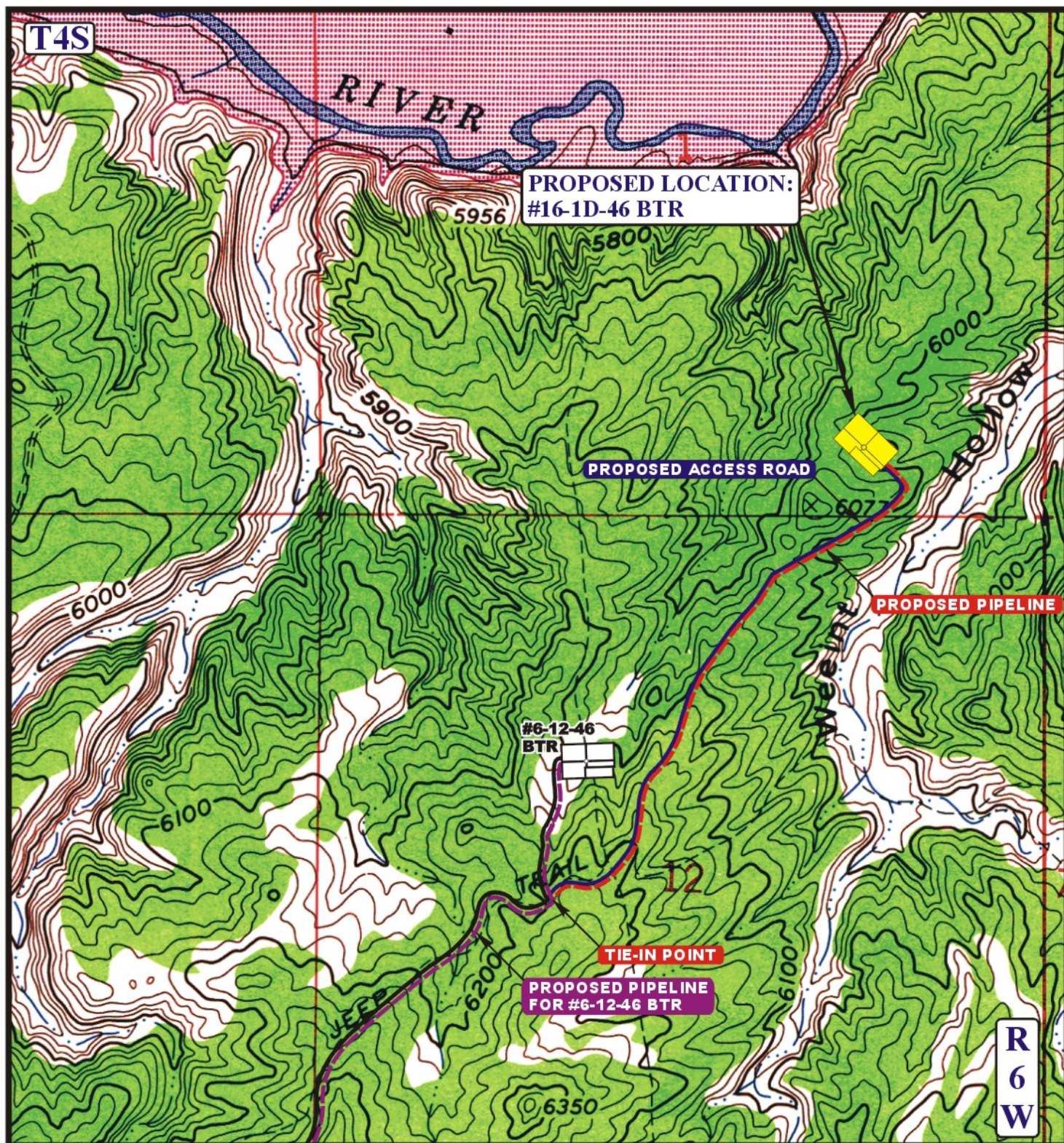
SCALE: 1:100,000 DRAWN BY: J.J. REVISED: 00-00-00











**APPROXIMATE TOTAL PIPELINE DISTANCE = 4,378' +/-**

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**BILL BARRETT CORPORATION**

**#16-1D-46 BTR**  
**SECTION 1, T4S, R6W, U.S.B.&M.**  
**472' FSL 1305' FEL**

**TOPOGRAPHIC MAP**

**11 23 10**  
 MONTH DAY YEAR

SCALE: 1" = 1000'

DRAWN BY: J.J.

REVISED: 00-00-00





# Bill Barrett Corp

Duchesne County, UT (NAD 1927)

Sec. 1-T4S-R6W

16-1D-46 BTR

Plan A Rev 0

Plan: Plan A Rev 0 Proposal

## Sperry Drilling Services

### Proposal Report

08 December, 2010

Well Coordinates: 665,413.99 N, 2,277,803.36 E (40° 09' 21.62" N, 110° 30' 21.88" W)

Ground Level: 6,015.00 ft

Local Coordinate Origin:

Viewing Datum:

TVDs to System:

North Reference:

Unit System:

Geodetic Scale Factor Applied

Version: 2003.16 Build: 431

Centered on Well 16-1D-46 BTR

RKB 16' @ 6031.00ft (Patterson 506)

N

True

API - US Survey Feet - Custom

**HALLIBURTON**



**Plan Report for 16-1D-46 BTR - Plan A Rev 0 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.000	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.000	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.000	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.000	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.000	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.000	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.000	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.000	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.000	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.000	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.000	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.000	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.000	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.000	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.000	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.000	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.000	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.000	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.000	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.000	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.000	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Kickoff at 2100.00ft</b>										
2,200.00	2.00	73.958	2,199.98	0.48	1.68	1.75	2.00	2.00	0.00	73.96
2,300.00	4.00	73.958	2,299.84	1.93	6.71	6.98	2.00	2.00	0.00	0.00
2,375.00	5.50	73.958	2,374.58	3.64	12.68	13.19	2.00	2.00	0.00	0.00
<b>Build Rate = 2.00°/100ft</b>										
2,400.00	6.00	73.958	2,399.45	4.34	15.08	15.69	2.00	2.00	0.00	0.00
2,430.73	6.61	73.958	2,430.00	5.27	18.33	19.07	2.00	2.00	0.00	0.00
<b>Green River</b>										
2,500.00	8.00	73.958	2,498.70	7.70	26.79	27.88	2.00	2.00	0.00	0.00
2,600.00	10.00	73.958	2,597.47	12.03	41.83	43.52	2.00	2.00	0.00	0.00
2,650.02	11.00	73.958	2,646.65	14.55	50.59	52.64	2.00	2.00	0.00	0.00
<b>End Build at 2650.02ft</b>										
2,700.00	11.00	73.958	2,695.71	17.18	59.75	62.18	0.00	0.00	0.00	0.00
2,800.00	11.00	73.958	2,793.87	22.45	78.09	81.26	0.00	0.00	0.00	0.00
2,900.00	11.00	73.958	2,892.03	27.73	96.43	100.34	0.00	0.00	0.00	0.00
3,000.00	11.00	73.958	2,990.20	33.00	114.77	119.42	0.00	0.00	0.00	0.00
3,100.00	11.00	73.958	3,088.36	38.27	133.11	138.50	0.00	0.00	0.00	0.00
3,142.42	11.00	73.958	3,130.00	40.51	140.89	146.60	0.00	0.00	0.00	0.00
<b>Mahogany</b>										
3,200.00	11.00	73.958	3,186.52	43.55	151.45	157.58	0.00	0.00	0.00	0.00
3,300.00	11.00	73.958	3,284.68	48.82	169.79	176.67	0.00	0.00	0.00	0.00
3,400.00	11.00	73.958	3,382.85	54.09	188.12	195.75	0.00	0.00	0.00	0.00
3,500.00	11.00	73.958	3,481.01	59.37	206.46	214.83	0.00	0.00	0.00	0.00
3,600.00	11.00	73.958	3,579.17	64.64	224.80	233.91	0.00	0.00	0.00	0.00
3,700.00	11.00	73.958	3,677.33	69.91	243.14	252.99	0.00	0.00	0.00	0.00
3,800.00	11.00	73.958	3,775.50	75.18	261.48	272.07	0.00	0.00	0.00	0.00
3,900.00	11.00	73.958	3,873.66	80.46	279.82	291.16	0.00	0.00	0.00	0.00
4,000.00	11.00	73.958	3,971.82	85.73	298.16	310.24	0.00	0.00	0.00	0.00
<b>11.00 Inclination</b>										
4,100.00	11.00	73.958	4,069.98	91.00	316.50	329.32	0.00	0.00	0.00	0.00
4,200.00	11.00	73.958	4,168.15	96.28	334.83	348.40	0.00	0.00	0.00	0.00
4,300.00	11.00	73.958	4,266.31	101.55	353.17	367.48	0.00	0.00	0.00	0.00
4,400.00	11.00	73.958	4,364.47	106.82	371.51	386.56	0.00	0.00	0.00	0.00
4,500.00	11.00	73.958	4,462.63	112.10	389.85	405.65	0.00	0.00	0.00	0.00
4,517.69	11.00	73.958	4,480.00	113.03	393.09	409.02	0.00	0.00	0.00	0.00



**Plan Report for 16-1D-46 BTR - Plan A Rev 0 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
<b>TGR3</b>										
4,600.00	11.00	73.958	4,560.80	117.37	408.19	424.73	0.00	0.00	0.00	0.00
4,700.00	11.00	73.958	4,658.96	122.64	426.53	443.81	0.00	0.00	0.00	0.00
4,800.00	11.00	73.958	4,757.12	127.91	444.87	462.89	0.00	0.00	0.00	0.00
4,900.00	11.00	73.958	4,855.29	133.19	463.20	481.97	0.00	0.00	0.00	0.00
5,000.00	11.00	73.958	4,953.45	138.46	481.54	501.05	0.00	0.00	0.00	0.00
5,100.00	11.00	73.958	5,051.61	143.73	499.88	520.14	0.00	0.00	0.00	0.00
5,200.00	11.00	73.958	5,149.77	149.01	518.22	539.22	0.00	0.00	0.00	0.00
5,300.00	11.00	73.958	5,247.94	154.28	536.56	558.30	0.00	0.00	0.00	0.00
5,400.00	11.00	73.958	5,346.10	159.55	554.90	577.38	0.00	0.00	0.00	0.00
5,409.07	11.00	73.958	5,355.00	160.03	556.56	579.11	0.00	0.00	0.00	0.00
<b>Douglas Creek</b>										
5,500.00	11.00	73.958	5,444.26	164.83	573.24	596.46	0.00	0.00	0.00	0.00
5,537.56	11.00	73.958	5,481.13	166.81	580.12	603.63	0.00	0.00	0.00	0.00
<b>Begin Drop at 5537.56ft</b>										
5,600.00	10.06	73.958	5,542.52	169.96	591.09	615.04	1.50	-1.50	0.00	180.00
5,700.00	8.56	73.958	5,641.20	174.43	606.65	631.23	1.50	-1.50	0.00	180.00
5,800.00	7.06	73.958	5,740.27	178.19	619.71	644.82	1.50	-1.50	0.00	180.00
5,829.95	6.61	73.958	5,770.00	179.17	623.14	648.39	1.50	-1.50	0.00	180.00
<b>3Point Marker</b>										
5,900.00	5.56	73.958	5,839.66	181.23	630.28	655.82	1.50	-1.50	0.00	-180.00
<b>Drop Rate = 1.50°/100ft</b>										
6,000.00	4.06	73.958	5,939.30	183.55	638.35	664.21	1.50	-1.50	0.00	-180.00
6,100.00	2.56	73.958	6,039.13	185.14	643.90	669.99	1.50	-1.50	0.00	180.00
6,200.00	1.06	73.958	6,139.08	186.02	646.94	673.16	1.50	-1.50	0.00	180.00
6,270.93	0.00	0.000	6,210.00	186.20	647.58	673.82	1.50	-1.50	0.00	-180.00
<b>End Drop at 6270.93ft - Black Shale - 16-1D-46 BTR Plan A Rev 0 Zone Tgt</b>										
6,300.00	0.00	0.000	6,239.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
6,400.00	0.00	0.000	6,339.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
6,490.93	0.00	0.000	6,430.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>Castle Peak</b>										
6,500.00	0.00	0.000	6,439.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
6,600.00	0.00	0.000	6,539.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
6,700.00	0.00	0.000	6,639.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
6,795.93	0.00	0.000	6,735.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>Uteland Butte</b>										
6,800.00	0.00	0.000	6,739.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
6,860.93	0.00	0.000	6,800.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>CR1</b>										
6,900.00	0.00	0.000	6,839.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
6,980.93	0.00	0.000	6,920.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>Wasatch</b>										
7,000.00	0.00	0.000	6,939.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,100.00	0.00	0.000	7,039.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,145.93	0.00	0.000	7,085.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>CR2</b>										
7,200.00	0.00	0.000	7,139.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,300.00	0.00	0.000	7,239.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,400.00	0.00	0.000	7,339.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,430.93	0.00	0.000	7,370.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>CR3</b>										
7,500.00	0.00	0.000	7,439.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,600.00	0.00	0.000	7,539.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,700.00	0.00	0.000	7,639.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,735.93	0.00	0.000	7,675.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>CR4</b>										
7,800.00	0.00	0.000	7,739.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
7,900.00	0.00	0.000	7,839.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00



**HALLIBURTON**

Duchesne County, UT (NAD 1927)

**Plan Report for 16-1D-46 BTR - Plan A Rev 0 Proposal**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	Toolface Azimuth (°)
7,970.93	0.00	0.000	7,910.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>CR4A</b>										
8,000.00	0.00	0.000	7,939.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
8,080.93	0.00	0.000	8,020.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>CR5</b>										
8,100.00	0.00	0.000	8,039.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
8,200.00	0.00	0.000	8,139.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
8,300.00	0.00	0.000	8,239.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
8,400.00	0.00	0.000	8,339.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
8,500.00	0.00	0.000	8,439.07	186.20	647.58	673.82	0.00	0.00	0.00	0.00
8,560.93	0.00	0.000	8,500.00	186.20	647.58	673.82	0.00	0.00	0.00	0.00
<b>16-1D-46 BTR Plan A Rev 0 BH Tgt</b>										

**Plan Annotations**

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
2,100.00	2,100.00	0.00	0.00	Kickoff at 2100.00ft
2,375.00	2,374.58	3.64	12.68	Build Rate = 2.00°/100ft
2,650.02	2,646.65	14.55	50.59	End Build at 2650.02ft
4,000.00	3,971.82	85.73	298.16	11.00 Inclination
5,537.56	5,481.13	166.81	580.12	Begin Drop at 5537.56ft
5,900.00	5,839.66	181.23	630.28	Drop Rate = 1.50°/100ft
6,270.93	6,210.00	186.20	647.58	End Drop at 6270.93ft
8,560.93	8,500.00	186.20	647.58	Total Depth = 8560.93ft

**Vertical Section Information**

Angle Type	Target	Azimuth (°)	Origin Type	Origin		Start TVD (ft)
				+N/_S (ft)	+E/-W (ft)	
Target	16-1D-46 BTR Plan A Rev 0 BH Tgt	73.958	Slot	0.00	0.00	0.00

**Survey tool program**

From (ft)	To (ft)	Survey/Plan	Survey Tool
0.00	8,560.93	Plan A Rev 0 Proposal	MWD



**HALLIBURTON**

Duchesne County, UT (NAD 1927)

**Plan Report for 16-1D-46 BTR - Plan A Rev 0 Proposal****Formation Details**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
2,430.73	2,430.00	Green River		0.00	
3,142.42	3,130.00	Mahogany		0.00	
4,517.69	4,480.00	TGR3		0.00	
5,409.07	5,355.00	Douglas Creek		0.00	
5,829.95	5,770.00	3Point Marker		0.00	
6,270.93	6,210.00	Black Shale		0.00	
6,490.93	6,430.00	Castle Peak		0.00	
6,795.93	6,735.00	Uteland Butte		0.00	
6,860.93	6,800.00	CR1		0.00	
6,980.93	6,920.00	Wasatch		0.00	
7,145.93	7,085.00	CR2		0.00	
7,430.93	7,370.00	CR3		0.00	
7,735.93	7,675.00	CR4		0.00	
7,970.93	7,910.00	CR4A		0.00	
8,080.93	8,020.00	CR5		0.00	

***Targets associated with this wellbore***

Target Name	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Shape
16-1D-46 BTR Plan A Rev 0 BH Tgt	8,500.00	186.20	647.58	Point
16-1D-46 BTR Plan A Rev 0 Zone Tgt	6,210.00	186.20	647.58	Circle



**North Reference Sheet for Sec. 1-T4S-R6W - 16-1D-46 BTR - Plan A Rev 0**

All data is in US Feet unless otherwise stated. Directions and Coordinates are relative to True North Reference.

Vertical Depths are relative to RKB 16' @ 6031.00ft (Patterson 506). Northing and Easting are relative to 16-1D-46 BTR

Coordinate System is US State Plane 1927 (Exact solution), Utah Central 4302 using datum NAD 1927 (NADCON CONUS), ellipsoid Clarke 1866

Projection method is Lambert Conformal Conic (2 parallel)

Central Meridian is -111.50°, Longitude Origin:0° 0' 0.000 E°, Latitude Origin:40° 39' 0.000 N°

False Easting: 2,000,000.00ft, False Northing: 0.00ft, Scale Reduction: 0.99991448

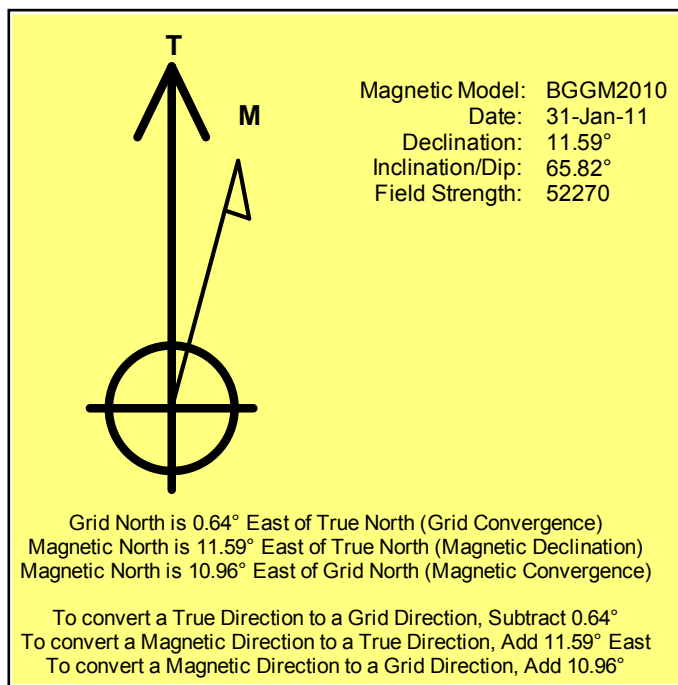
Grid Coordinates of Well: 665,413.99 ft N, 2,277,803.36 ft E

Geographical Coordinates of Well: 40° 09' 21.62" N, 110° 30' 21.88" W

Grid Convergence at Surface is: 0.64°

Based upon Minimum Curvature type calculations, at a Measured Depth of 8,560.93ft  
the Bottom Hole Displacement is 673.82ft in the Direction of 73.96° (True).

Magnetic Convergence at surface is: -10.96° (31 January 2011, , BGGM2010)





Project: Duchesne County, UT (NAD 1927)  
Site: Sec. 1-T4S-R6W  
Well: 16-1D-46 BTR  
Wellbore: Plan A Rev 0  
Plan: Plan A Rev 0 Proposal

## Bill Barrett Corp

**HALLIBURTON**  
Sperry Drilling

## SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
1	0.00	0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	
2	2100.00	0.00	0.000	2100.00	0.00	0.00	0.00	0.00	0.00	
3	2650.02	11.00	73.958	2646.65	14.55	50.59	2.00	73.96	52.64	
4	5537.56	11.00	73.958	5481.13	166.81	580.13	0.00	0.00	603.63	16-1D-46 BTR Plan A Rev 0 Zone Tgt
5	6270.93	0.00	0.000	6210.00	186.20	647.58	1.50	180.00	673.82	
6	8560.93	0.00	0.000	8500.00	186.20	647.58	0.00	0.00	673.82	16-1D-46 BTR Plan A Rev 0 BH Tgt

## WELLBORE TARGET DETAILS

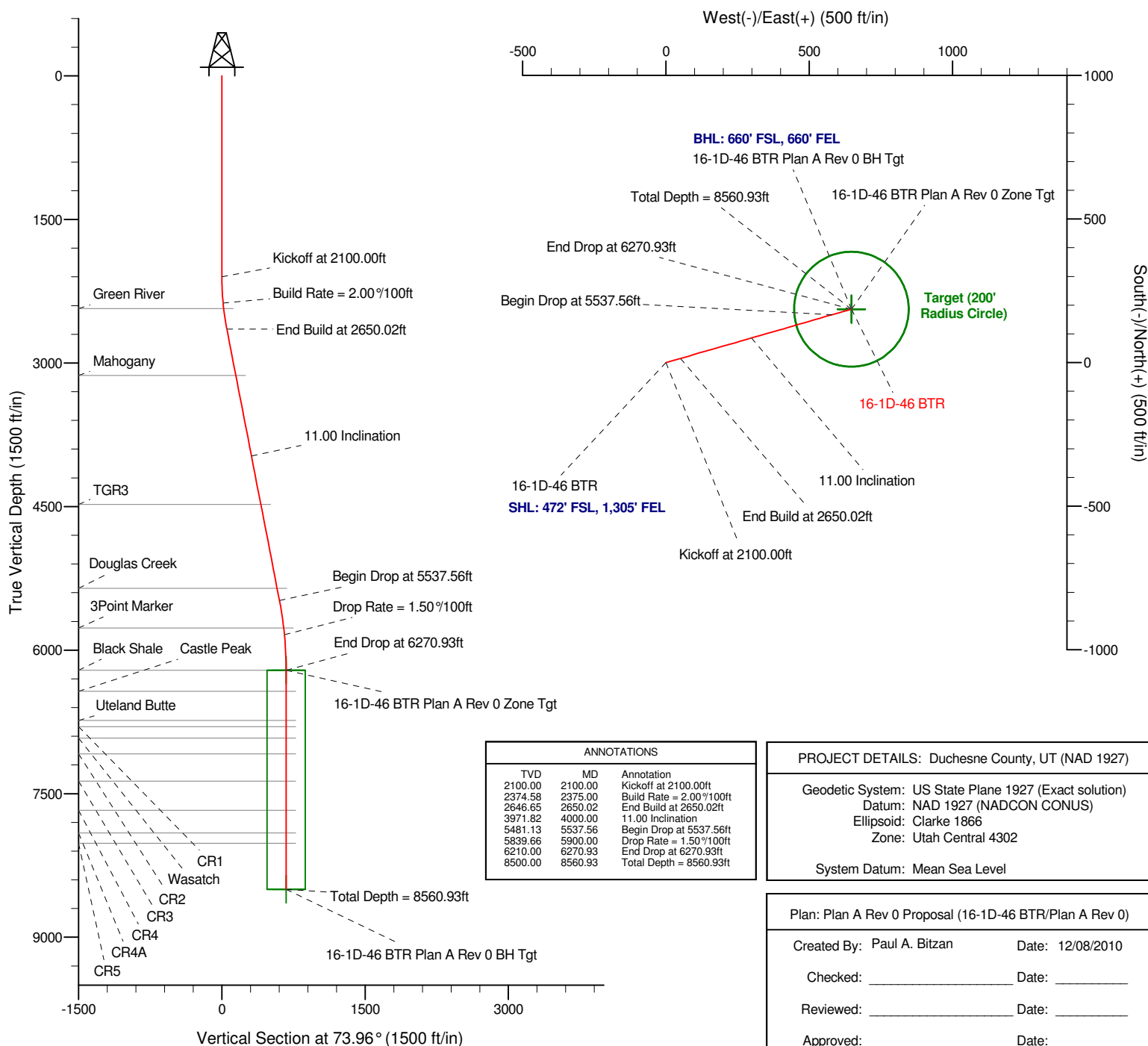
Name	TVD	+N/-S	+E/-W	Shape
16-1D-46 BTR Plan A Rev 0 Zone Tgt	6210.00	186.20	647.58	Circle (Radius: 200.00)
16-1D-46 BTR Plan A Rev 0 BH Tgt	8500.00	186.20	647.58	

## WELL DETAILS: 16-1D-46 BTR

Ground Level:	6015.00	Latitude	Longitude
Northing	665413.99	40° 9' 21.620 N	110° 30' 21.880 W
Easting	2277803.36		

## FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2430.00	2430.73	Green River
3130.00	3142.42	Mahogany
4480.00	4517.69	TGR3
5355.00	5409.07	Douglas Creek
5770.00	5829.95	3Point Marker
6210.00	6270.93	Black Shale
6430.00	6490.93	Castle Peak
6735.00	6795.93	Uteland Butte
6800.00	6860.93	CR1
6920.00	6980.93	Wasatch
7085.00	7145.93	CR2
7370.00	7430.93	CR3
7675.00	7735.93	CR4
7910.00	7970.93	CR4A
8020.00	8080.93	CR5



RECEIVED: Apr. 12, 2011



**SURFACE USE PLAN**

BILL BARRETT CORPORATION

**16-1D-46 BTR Well Pad**

SESE, 472' FSL, 1305' FEL, Section 1, T4S, R6W, USB&M (surface hole)

SESE, 660' FSL, 660' FEL, Section 1, T4S, R6W, USB&M (bottom hole)

Duchesne County, Utah

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**The project is located entirely on Ute Tribe surface and mineral.**

**The onsite and surface use with the Ute Indian Tribe was completed on April 4, 2011**

The excavation contractor would be provided with an approved copy of the surface use plan of operations before initiating construction.

1. Existing Roads:

- a. The proposed well site is located approximately 10.8 miles southwest of Duchesne, Utah. Maps and directions reflecting the route to the proposed well site are included (see Topographic maps A and B).
- b. The existing State Highway 191 would be utilized from Duchesne for 3.5 miles to the existing BBC maintained Skitzzy Road that would be utilized for 5 miles to the existing access for the 6-12-46 BTR and provides access to the planned new access road.
- c. Project roads would require routine year-round maintenance to provide year-round access. Maintenance would include inspections, reduction of ruts and holes, maintenance to keep water off the road, replacement of surfacing materials, and clearing of sediment blocking ditches and culverts. Should snow removal become necessary, roads would be cleared with a motor grader and snow would be stored along the down gradient side to prohibit runoff onto the road. Aggregate would be used as necessary to maintain a solid running surface and minimize dust generation.
- d. Vehicle operators would obey posted speed restrictions and observe safe speeds commensurate with road and weather conditions. Travel would be limited to the existing access roads and proposed access road.
- e. The use of roads under State and Duchesne County Road Department maintenance are necessary to access the project area with no improvements proposed. No encroachment or pipeline crossing permit are required
- f. All existing roads would be maintained and kept in good repair during all phases of operation.



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Surface Use Plan  
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Duchesne County, UT

2. Planned Access Road:

- a. Approximately 4,347 feet of new access road trending northeast is planned from the existing 6-12-46 BTR well site access road (see Topographic Map B).
- b. The planned access road would be constructed to a 30-foot ROW width with an 18-foot travel surface. See section 12.d. below for disturbance estimates.
- c. New road construction and improvements of existing roads would typically require the use of motor graders, crawler tractors, 10-yard end dump trucks, and water trucks. The standard methodology for building new roads involves the use of a crawler tractor or track hoe to windrow the vegetation to one side of the road corridor, remove topsoil to the opposing side of the corridor, and rough-in the roadway. This is followed by a grader or bulldozer to establish barrow ditches and crown the road surface. Where culverts are required, a track hoe or backhoe would trench the road and install the culverts. Some hand labor would be required when installing and armoring culverts. Road base or gravel in some instances would be necessary and would be hauled in and a grader used to smooth the running surface.
- d. The proposed road would be constructed to facilitate drainage, control erosion and minimize visual impacts by following natural contours where practical. No unnecessary side-casting of material would occur on steep slopes.
- e. A maximum grade of 10% would be maintained throughout the project with minimum cuts and fills, as necessary, to access the well.
- f. Excess rock from construction of the pad may be used for surfacing of the access road if necessary. Any additional aggregate necessary would be obtained from private or State of Utah lands in conformance with applicable regulations. Aggregate would be of sufficient size, type, and amount to allow all weather access and alleviate dust.
- g. Where topsoil removal is necessary, it would be windrowed (i.e. stockpiled/accumulated along the edge of the ROW and in a low row/pile parallel with the ROW) and re-spread over the disturbed area after construction and backfilling are completed. Vegetation removed from the disturbed area would also be re-spread to provide protection, nutrient recycling, and a seed source for reclamation.
- h. Turnouts are not proposed, adequate site distance exists in all directions.
- i. No culverts or low-water crossings are anticipated. Adequate drainage structures, where necessary, would be incorporated into the remainder of the road to prevent soil erosion and accommodate all-weather traffic.
- j. No gates or cattle guards are anticipated at this time.



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- k. Surface disturbance and vehicular travel would be limited to the approved location access road. Adequate signs would be posted, as necessary, to warn the public of project related traffic.
    - l. All access roads and surface disturbing activities would conform to the appropriate standard, **no higher than necessary**, to accommodate their intended function adequately as outlined in the Bureau of Land Management and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development, Fourth Edition – Revised 2007.
    - m. The operator would be responsible for all maintenance needs of the new access road.
  3. Location of Existing Wells (see One-Mile Radius Map):
    - a. Following is a list of wells with surface hole locations within a one-mile radius of the proposed pad:

i. water wells	none
ii. injection wells	none
iii. disposal wells	none
iv. drilling wells	none
v. temp shut-in wells	none
vi. producing wells	none
vii. abandoned wells	one
4. Location of Production Facilities
  - a. Surface facilities would consist of a wellhead, separator, gas meter, (1) 500 gal methanol tank, (1) 500 glycol tank, (3) 500 bbl oil tanks, (1) 500 bbl water tank, (1) 500 bbl test tank, (1) 1000 gal propane tank, a pumping unit or Roto-flex unit or gas lift unit with a natural gas fired motor, solar panels, solar chemical and methanol pumps and one trace pump. See attached proposed facility diagram.
  - b. Most wells would be fitted with a pump jack or Roto-flex unit or gas lift to assist liquid production if liquid volumes and/or low formation pressures require it. Plunger lift systems do not require any outside source of energy. The prime mover for pump jacks or Roto-flex units would be small (75 horsepower or less), natural gas-fired internal combustion engines. If a gas lift is installed, it would be set on a 10 ft x 15 ft pad and the prime mover would be a natural gas-fired internal combustion engine rated at 200 horsepower or less or an electric compressor of similar horsepower powered by a generator.
  - c. The tank battery would be surrounded by a secondary containment berm of sufficient capacity to contain 1.1 times the entire capacity of the largest single tank and sufficient freeboard to contain precipitation. All loading lines and valves would be placed inside the berm surrounding the tank battery or would utilize catchment basins to contain spills. All liquid hydrocarbon production and



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measurement shall conform to the provisions of 43 CFR 3162.7-2 and Onshore Oil and Gas Order No. 4 for the measurement of oil.

- d. Gas meter run(s) would be constructed and located on lease within 500 feet of the wellheads. Meter runs would be housed and/or fenced. As practicably feasible, meters would be equipped with remote telemetry monitoring systems. All gas production and measurement shall comply with the provisions of 43 CFR 3162.7-3, Onshore Oil and Gas Order No. 5, and American Gas Association (AGA) Report No. 3.
- e. A combustor may be installed at this location for control of associated condensate tank emissions. A combustor ranges from 24 inches to 48 inches wide and is approximately 27 ft tall. Combustor placement would be on existing disturbance.
- f. Approximately 4,378 feet of pipeline corridor (see Topographic Map C) containing up to three lines (one gas pipeline up to 8 inch in diameter, one water line up to 4 inch in diameter and one residue line up to 4 inch in diameter) is proposed trending southwest to the existing pipeline corridor for the 6-12-46 BTR. Pipelines would be constructed of steel, polyethylene or fiberglass and would connect to the proposed pipeline servicing nearby BBC wells. The pipeline crosses entirely Ute Tribe surface.
- g. The new segment of gas pipeline would be surface laid within a 30 foot wide pipeline corridor adjacent to the proposed access road. See 12.d below for disturbance estimates.
- h. Construction of the ROW would temporarily utilize the 30 foot disturbed width for the road for a total disturbed width of 60 foot for the road and pipeline corridors. The use of the proposed well site and access roads would facilitate the staging of the pipeline construction.
- i. Pipeline construction methods and practices would be planned and conducted by BBC with the objective of enhancing reclamation and fostering the re-establishment of the native plant community.
- j. All permanent above-ground structures would be painted a flat, non-reflective color, such as Juniper Green, to match the standard environmental colors. All facilities would be painted the designated color at the time of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) may be excluded.
- k. Site security guidelines identified in 43 CFR 3162.7-5 and Onshore Oil and Gas Order No. 3 would be adhered to. Any modifications to proposed facilities would be reflected in the site security diagram submitted.



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- I. The site would require periodic maintenance to ensure that drainages are kept open and free of debris, and that surfaces are properly treated to reduce erosion, fugitive dust, and impacts to adjacent areas.

5. Location and Type of Water Supply:

- a. Water for the drilling and completion would be trucked from any of the following locations:

<b>Water Right No. and Application or Change No.</b>	<b>Applicant</b>	<b>Allocation</b>	<b>Date</b>	<b>Point of Diversion</b>	<b>Source</b>
43-180	Duchesne City Water Service District	5 cfs	8/13/2004	Knight Diversion Dam	Duchesne River
43-1202, Change a13837	Myton City	5.49 cfs and 3967 acre feet	3/21/1986	Knight Diversion Dam	Duchesne River
43-10444, Appln A57477	Duchesne County Upper Country Water	2 cfs	1994	Ditch at Source	Cow Canyon Spring
43-10446, Appln F57432	Duchesne County Upper Country Water	1.58 cfs	1994	Ditch at Source	Cow Canyon Spring
43-1273, Appln A17462	J.J.N.P. Company	7 cfs	1946	Strawberry River	Strawberry River
43-1273, Appln t36590	J.J.N.P. Company	4 cfs	6/03/2010	Strawberry River	Strawberry River

- b. No new water well is proposed with this application.
- c. Should additional water sources be pursued they would be properly permitted through the State of Utah – Division of Water Rights.
- d. Water use would vary in accordance with the formations to be drilled but would be up to approximately 5.41 acre feet for drilling and completion operations.

6. Source of Construction Material:

- a. The use of materials would conform to 43 CFR 3610.2-3.
- b. No construction materials would be removed from the lease or EDA area.
- c. If any additional gravel is required, it would be obtained from a local supplier having a permitted source of materials within the general area.



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7. Methods of Handling Waste Disposal:

- a. All wastes associated with this application would be contained and disposed of utilizing approved facilities.
- b. The reserve pit would be constructed so as not to leak, break or allow any discharge.
- c. The reserve would be lined with 12 mil (minimum) thickness polyethylene nylon reinforced liner material. The liner(s) would overlay straw, dirt and/or bentonite if rock is encountered during excavation. The liner would overlap the pit walls and be covered with dirt and/or rocks to hold them in place. No trash, scrap pipe, or other materials that could puncture the liner would be discarded in the pit. A minimum of two feet of free board would be maintained between the maximum fluid level and the top of the reserve pit at all times.
- d. To deter livestock from entering the pit, the three sides exterior to the location would be fenced before drilling starts. Following the conclusion of drilling and completion activities, the fourth side would also be fenced.
- e. Drill cuttings would be contained in the pit and buried on-site for a period not to exceed six months, weather permitting
- f. Produced fluids from the well other than water would be decanted into steel test tank(s) until such time as construction of production facilities is completed. Any oil that may be accumulated would be transferred to a permanent production tank. Produced water may be used in further drilling and completion activities, evaporated in the pit, or would be hauled to one of the state-approved disposal facilities below:

<b>Disposal Facilities</b>
1. RNI Industries, Inc. – Pleasant Valley Disposal Pits, Sec. 25, 26, 35 & 36, T4S-R3W
2. Pro Water LLC – Blue Bench 13-1 Disposal Well (43-013-30971) NENE, Sec. 13, T3S-R5W
3. RN Industries, Inc. – Bluebell Disposal Ponds, Sec. 2, 4 & 9, T2S-R2W
4. Water Disposal, Inc. – Harmston 1-32-A1 Disposal Well (43-013-30224), UTR #00707, Sec. 32, T1S-R1W
5. Unified Water Pits – Sec. 31, T2S-R4W
6. Iowa Tank Line Pits – 8500 BLM Fence Road, Pleasant Valley

- g. Any salts and/or chemicals, which are an integral part of the drilling system, would be disposed of in the same manner as the drilling fluid.



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- h. Any spills of oil, condensate, produced or frac water, drilling fluids, or other potentially deleterious substances would be recovered and either returned to its origin or disposed of at an approved disposal site, most likely in Duchesne, Utah.
- i. Chemicals on the EPA's Consolidated List of Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) may be used or stored in quantities over reportable quantities. In the course of drilling, BBC could potentially store and use diesel fuel, sand (silica), hydrochloric acid, and CO<sub>2</sub> gas, all described as hazardous substances in 40 CFR Part 302, Section 302.4, in quantities exceeding 10,000 pounds. In addition, natural gas condensate and crude oil and methanol may be stored or used in reportable quantities. Small quantities of retail products (paint/spray paints, solvents {e.g., WD-40}, and lubrication oil) containing non-reportable volumes of hazardous substances may be stored and used on site at any time. No extremely hazardous substances, as defined in 40 CFR 355, would be used, produced, stored, transported or disposed of in association with the drilling, testing or completion of the wells.
- j. Portable toilets and trash containers would be located onsite during drilling and completion operations. A commercial supplier would install and maintain portable toilets and equipment and would be responsible for removing sanitary waste. Sanitary waste facilities (i.e. toilet holding tanks) would be regularly pumped and their contents disposed of at approved sewage disposal facilities in Duchesne, and/or Uintah Counties, in accordance with applicable rules and regulations regarding sewage treatment and disposal. Accumulated trash and nonflammable waste materials would be hauled to an approved landfill once a week or as often as necessary. All debris and waste materials not contained in the trash containers would be cleaned up, removed from the construction ROW, well pad, or worker housing location, and disposed of at an approved landfill. Trash would be cleaned up everyday.
- k. Sanitary waste equipment and trash bins would be removed from the Project Area upon completion of access road or pipeline construction; following drilling and completion operations at an individual well pad; when worker housing is no longer needed; or as required.
- l. A flare pit may be constructed a minimum of 110' from the wellhead(s) and may be used during completion work. In the event a flare pit proves to be unworkable, a temporary flare stack or open top tank would be installed. BBC would flow back as much fluid and gas as possible into pressurized vessels, separating the fluids from the gas. In some instances, due to the completion fluids utilized within the Project Area, it is not feasible to direct the flow stream from the wellbore through pressurized vessels. In such instances BBC proposes to direct the flow to the open top tanks until flow through the pressurized vessels is feasible. At which point the fluid would either be returned to the reserve pit or placed into a tank(s). The gas would be directed to the flare pit, flare stack (each with a constant source of ignition), or may be directed into the sales pipeline.



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- m. Hydrocarbons would be removed from the reserve pit would as soon as practical. In the event immediate removal is not practical, the reserve pit would be flagged overhead or covered with wire or plastic mesh to protect migrating birds.

8. Ancillary Facilities:

- a. Garbage containers and portable toilets would be located on the well pad.
- b. On well pads where active drilling and completion is occurring, temporary housing would be provided on location for the well pad supervisor, geologist, tool pusher, and others that are required to be on location at all times. The well pad could include up to five single wide mobile homes or fifth wheel campers/trailers.

9. Well Site Layout:

- a. The well would be properly identified in accordance with 43 CFR 3162.6.
- b. The pad layout, cross section diagrams and rig layout are enclosed (see Figures 1 and 2).
- c. The pad and road designs are consistent with industry specifications.
- d. The pad has been staked at its maximum size of 400 feet x 255 feet with an inboard reserve pit size of 70 feet x 235 feet x 8 feet deep. See section 12.d below for disturbance estimates.
- e. Within the approved well pad location, a crawler tractor would strip whatever topsoil is present and stockpile it along the edge of the well pad for use during reclamation. Vegetation would be distributed along the sides of the well pad.
- f. Fill from pit excavation would be stockpiled along the edge of the pit and the adjacent edge of the well pad.
- g. Use of erosion control measures, including proper grading to minimize slopes, diversion terraces and ditches, mulching, terracing, riprap, fiber matting, temporary sediment traps, and broad-based drainage dips or low water crossings would be employed by BBC as necessary and appropriate to minimize erosion and surface runoff during well pad construction and operation. Cut and fill slopes would be constructed such that stability would be maintained for the life of the activity.
- h. All cut and fill slopes would be such that stability can be maintained for the life of the activity.
- i. Diversion ditches would be constructed, if necessary, around the well site to prevent surface waters from entering the well site area.



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- j. Water application may be implemented if necessary to minimize the amount of fugitive dust.
- k. All surface disturbing activities would be supervised by a qualified, responsible company representative who is aware of the terms and conditions of the APD and specifications in the approved plans.

10. Plan for Restoration of the Surface:

- a. A site specific reclamation plan will be submitted within 90 days of location construction.
- b. Site reclamation would be accomplished for portions of the well pad not required for the continued operation of the well on this pad within six months of completion, weather permitting.
- c. The operator would control noxious weeds along access road use authorizations and well site by spraying or mechanical removal, according to the Utah Noxious Weed Act and as set forth in the approved surface damage agreements.
- d. Rat and mouse holes would be filled and compacted from bottom to top immediately upon release of the drilling rig from location. Upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1. The reserve pit would be allowed to dry prior to the commencement of backfilling work. No attempts would be made to backfill the reserve pit until it is free of standing water. Once dry, the liner would be torn and perforated before backfilling.
- e. The reserve pit and that portion of the location not needed for production facilities/operations would be recontoured to the approximate natural contours. Areas not used for production purposes would be backfilled and blended into the surrounding terrain, reseeded and erosion control measures installed. Mulching, erosion control measures and fertilization may be required to achieve acceptable stabilization. Back slopes and fore slopes would be reduced as practical and scarified with the contour. The reserved topsoil would be evenly distributed over the slopes and scarified along the contour. Slopes would be seeded with the Ute Tribe specified seed mix.
- f. Topsoil salvaged from the drill site and stored for more than one year would be placed at the location indicated on the well site layout drawing and graded to a depth optimum to maintain topsoil viability, seeded with the Ute Tribe prescribed seed mixture and covered with mulch for protection from wind and water erosion and to discourage the invasion of weeds.



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 Duchesne County, UT

11. Surface and Mineral Ownership:

- a. Surface ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.
- b. Mineral ownership – Ute Indian Tribe - 988 South 7500 East; Ft. Duchesne, Utah 84026; 435-725-4982.

12. Other Information:

- a. Montgomery Archeological Consultants has conducted a Class III archeological survey. A copy of the report has been submitted under separate cover to the appropriate agencies by Montgomery as report 10-270 dated 1-17-2011.
- b. BBC would require that their personnel, contractors, and subcontractors to comply with Federal regulations intended to protect archeological and cultural resources.
- c. Project personnel and contractors would be educated on and subject to the following requirements:
  - No dogs or firearms within the Project Area.
  - No littering within the Project Area.
  - Smoking within the Project Area would only be allowed in off-operator active locations or in specifically designated smoking areas. All cigarette butts would be placed in appropriate containers and not thrown on the ground or out windows of vehicles; personnel and contractors would abide by all fire restriction orders.
  - Campfires or uncontained fires of any kind would be prohibited.
  - Portable generators used in the Project Area would have spark arrestors.
- d. Disturbance estimates:

**Approximate Acreage Disturbances**

Well Pad		3.151	acres
Access	4,347 feet	2.994	acres
Pipeline	4,378 feet	3.015	Acres
<b>Total</b>		<b>9.16</b>	<b>Acres</b>



Bill Barrett Corporation  
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16-1D-46 BTR  
Duchesne County, UT

OPERATOR CERTIFICATION

Certification:

I hereby certify that I, or someone under my direction supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein would be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application and that bond coverage is provided under Bill Barrett Corporations federal nationwide bond. These statements are subject to the provisions of 18 U.S.C. 1001 for the filings of false statements.

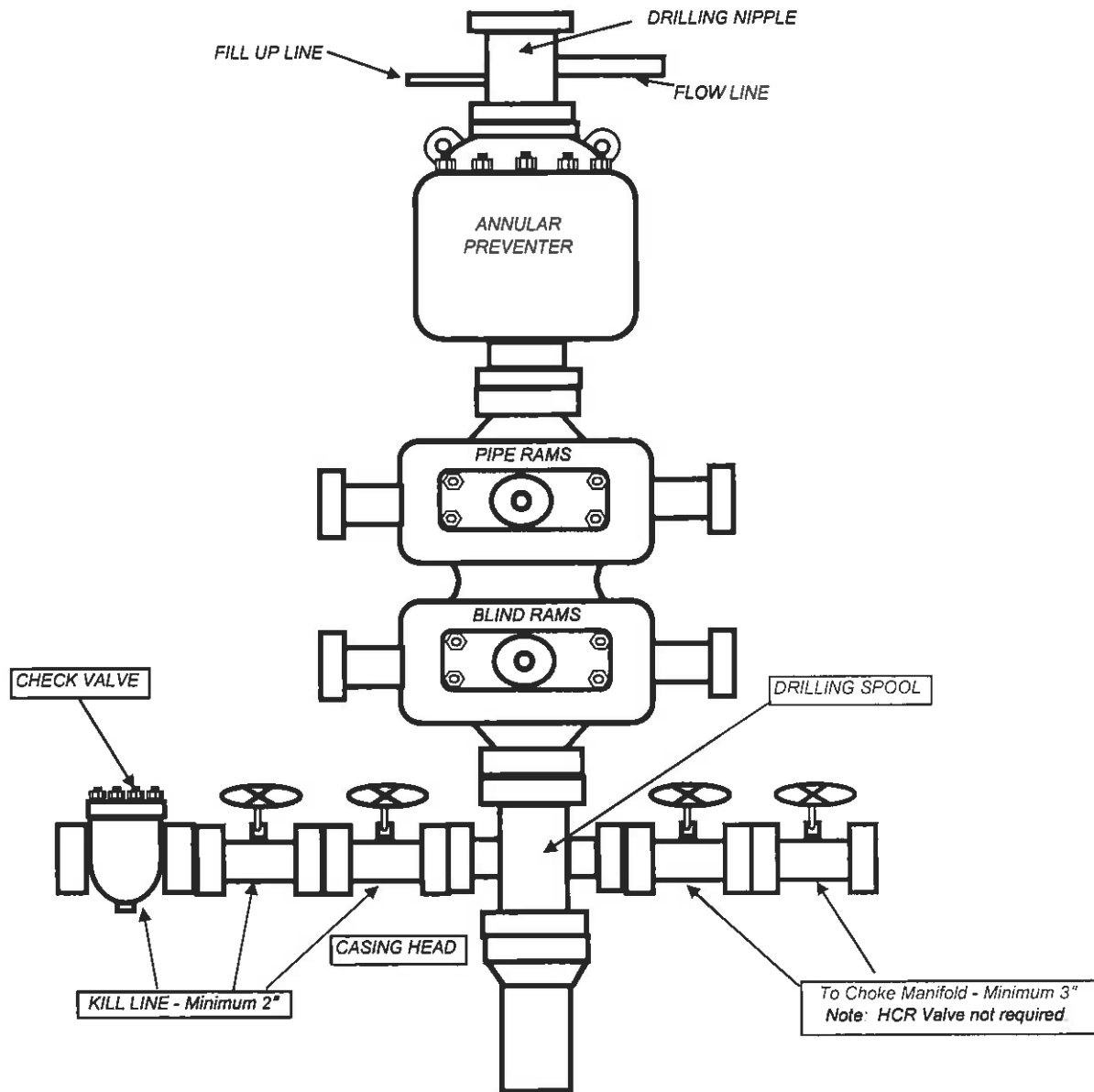
Executed this 12<sup>th</sup> day of April 2011  
Name: Tracey Fallang  
Position Title: Regulatory Manager  
Address: 1099 18<sup>th</sup> Street, Suite 2300, Denver, CO 80202  
Telephone: 303-312-8134  
E-mail: tfallang@billbarrettcorp.com  
Field Representative Kary Eldredge / Bill Barrett Corporation  
Address: 1820 W. Highway 40, Roosevelt, UT 84066  
Telephone: 435-725-3515 (office); 435-724-6789 (mobile)  
E-mail: keldredge@billbarrettcorp.com

Tracey Fallang, Regulatory Manager  
Tracey Fallang, Regulatory Manager



## BILL BARRETT CORPORATION

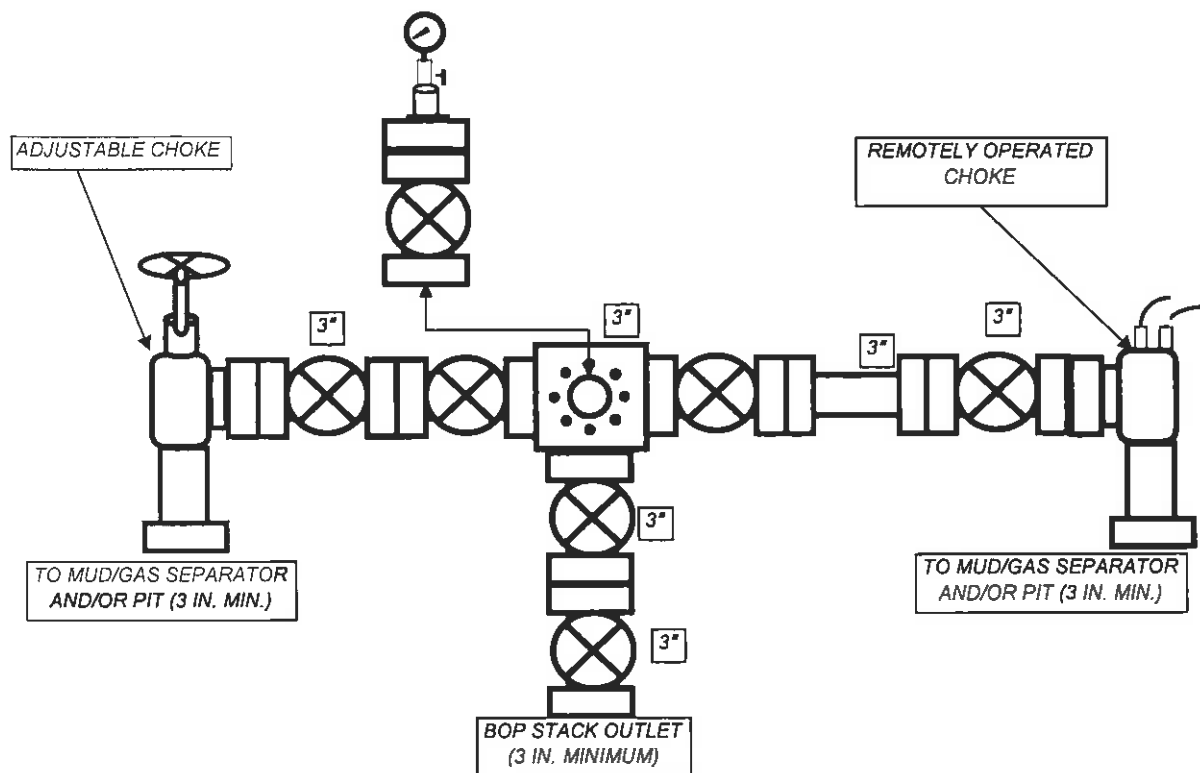
### TYPICAL 5,000 p.s.i. BLOWOUT PREVENTER





# BILL BARRETT CORPORATION

## TYPICAL 5,000 p.s.i. CHOKE MANIFOLD







April 12, 2011

Ms. Diana Mason – Petroleum Technician  
State of Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
P. O. Box 145801  
Salt Lake City, Utah 84114-5801

Re: Directional Drilling R649-3-11  
**Blacktail Ridge Area #16-1D-46 BTR Well**  
Surface: 472' FSL & 1,305' FEL, SESE, 1-T4S-R6W, USM  
Bottom Hole: 660' FSL & 660' FEL, SESE, 1-T4S-R6W, USM  
Duchesne County, Utah

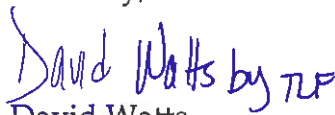
Dear Ms. Mason,

Pursuant to the filing of Bill Barrett Corporation's ("BBC") Application for Permit to Drill the above referenced well, we hereby submit this letter in accordance with Oil & Gas Conservation Rules R649-2, R649-3, R649-10 and R649-11, pertaining to the Location and Siting of Wells.

- The proposed location is within our Blacktail Ridge Area.
- BBC is permitting this well as a directional well in order to minimize surface disturbance. By locating the well at the surface location and directionally drilling from this location, BBC will be able to utilize the existing road and pipelines in the area.
- The well will be drilled under an Exploration and Development Agreement between the Ute Indian Tribe and Ute Distribution Corporation. Ute Energy, LLC owns a right to participate in this well.
- BBC certifies that it is the working interest owner of all lands within 460 feet of the proposed well location, and together with Ute Energy, LLC, we own 100% of the working interest in these lands.

Based on the information provided, BBC requests that the permit be granted pursuant to R649-3-11. Should you have any questions or need further information, please contact me at 303-312-8544.

Sincerely,



David Watts  
Landman

1099 18TH STREET  
SUITE 2300  
DENVER, CO 80202

**RECEIVED: Apr. 12, 2011**



## BILL BARRETT CORPORATION

## LOCATION LAYOUT FOR

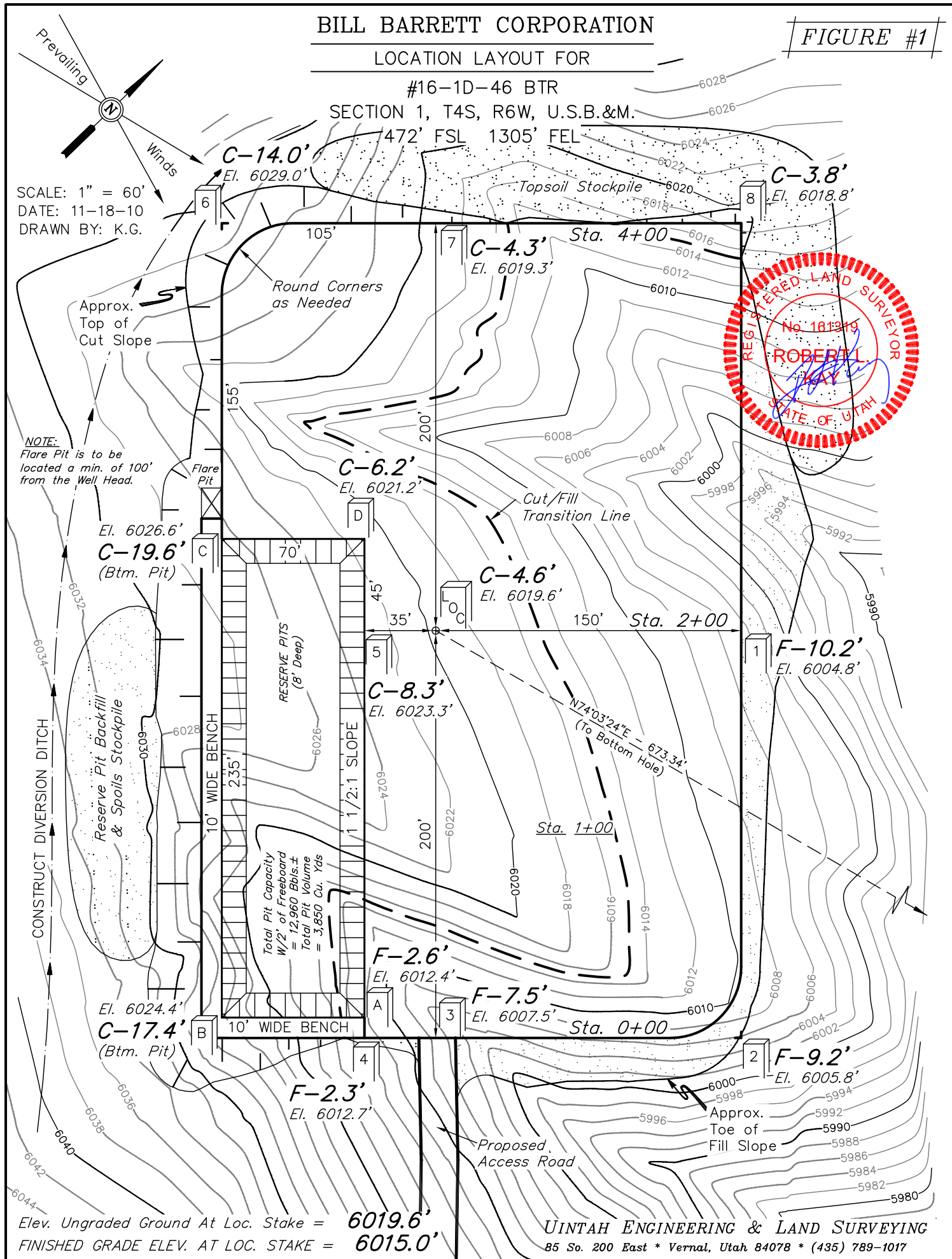
#16-1D-46 BTR

SECTION 1, T4S, R6W, U.S.B.&amp;M.

472' FSL 1305' FEL

FIGURE #1

SCALE: 1" = 60'  
DATE: 11-18-10  
DRAWN BY: K.G.



RECEIVED: Apr. 12, 2011



## BILL BARRETT CORPORATION

## TYPICAL CROSS SECTIONS FOR

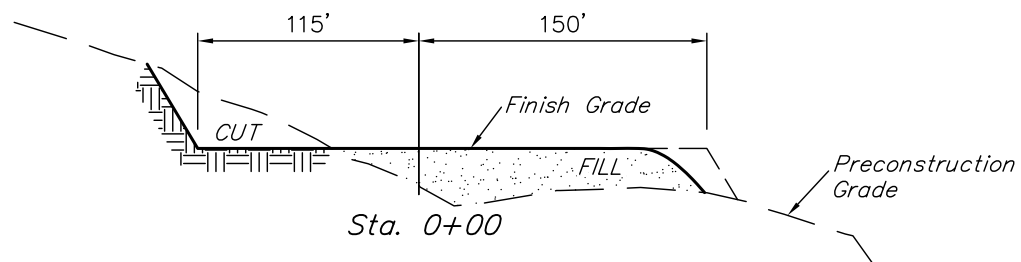
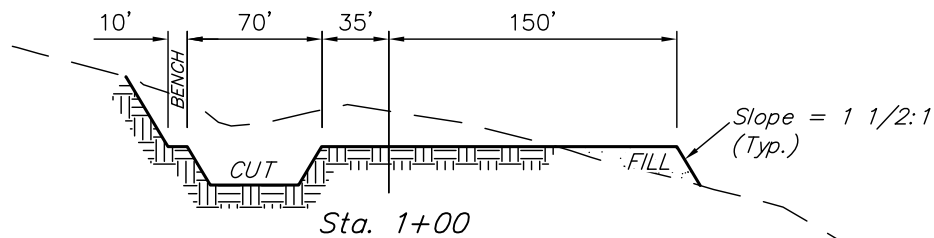
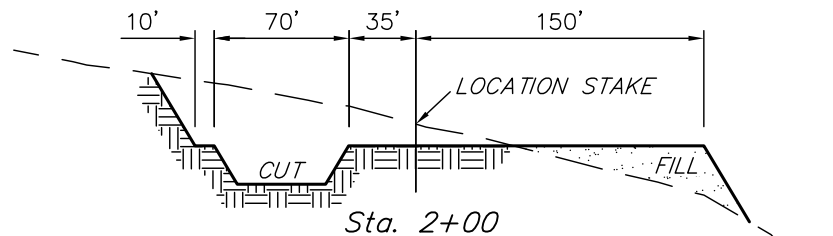
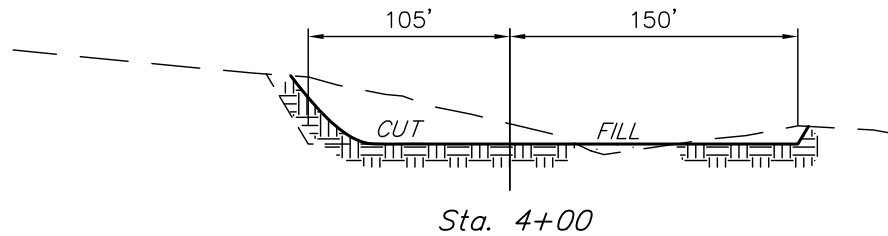
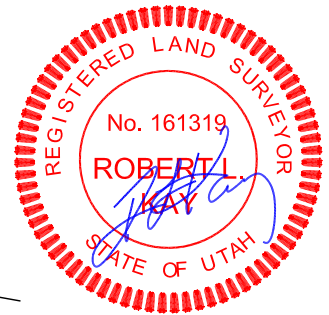
#16-1D-46 BTR

SECTION 1, T4S, R6W, U.S.B.&amp;M.

472' FSL 1305' FEL

FIGURE #2

1" = 40'  
X-Section  
Scale  
1" = 100'  
DATE: 11-18-10  
DRAWN BY: K.G.



## NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

## APPROXIMATE ACREAGES

WELL SITE DISTURBANCE =  $\pm 3.151$  ACRES  
ACCESS ROAD DISTURBANCE =  $\pm 2.994$  ACRES  
PIPELINE DISTURBANCE =  $\pm 3.015$  ACRES  
TOTAL =  $\pm 9.160$  ACRES

\* NOTE:  
FILL QUANTITY INCLUDES 5% FOR COMPACTION

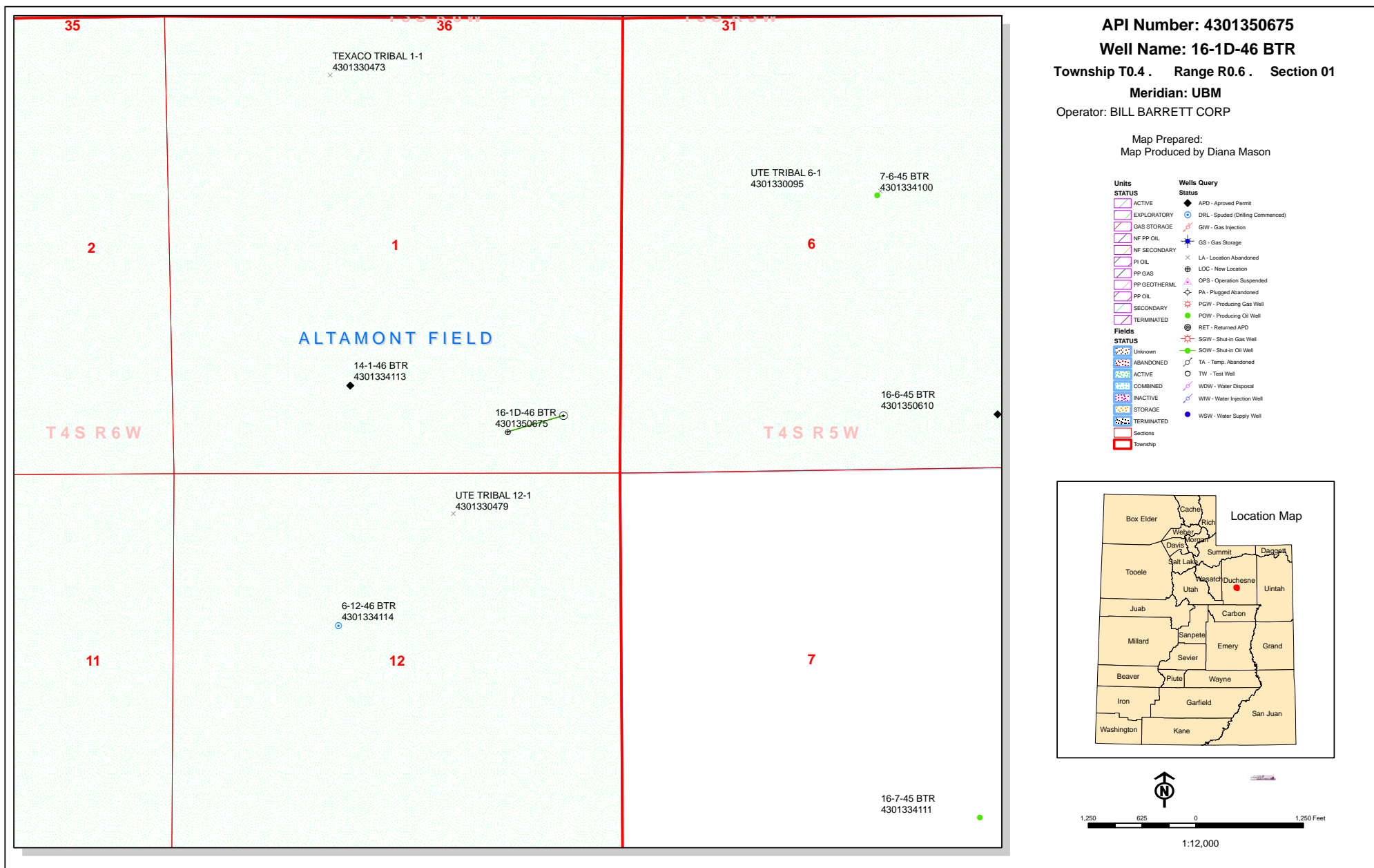
## APPROXIMATE YARDAGES

(12") Topsoil Stripping = 4,840 Cu. Yds.  
Remaining Location = 16,070 Cu. Yds.  
TOTAL CUT = 20,910 CU.YDS.  
FILL = 14,140 CU.YDS.

EXCESS MATERIAL = 6,770 Cu. Yds.  
Topsoil & Pit Backfill = 6,770 Cu. Yds.  
(1/2 Pit Vol.)  
EXCESS UNBALANCE = 0 Cu. Yds.  
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017





**Location Map**

Scale: 1:12,000

1,250 625 0 1,250 Feet



## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 4/12/2011**API NO. ASSIGNED:** 43013506750000**WELL NAME:** 16-1D-46 BTR**OPERATOR:** BILL BARRETT CORP (N2165)**PHONE NUMBER:** 303 312-8134**CONTACT:** Tracey Fallang**PROPOSED LOCATION:** SESE 01 040S 060W**Permit Tech Review:** ☒**SURFACE:** 0472 FSL 1305 FEL**Engineering Review:** ☐**BOTTOM:** 0660 FSL 0660 FEL**Geology Review:** ☒**COUNTY:** DUCHESNE**LATITUDE:** 40.15589**LONGITUDE:** -110.50609**UTM SURF EASTINGS:** 542065.00**NORTHINGS:** 4444967.00**FIELD NAME:** ALTAMONT**LEASE TYPE:** 2 - Indian**LEASE NUMBER:** 2OG0005608**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER-WASATCH**SURFACE OWNER:** 2 - Indian**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**☒ **PLAT**☒ **Bond:** INDIAN - LPM 8874725☐ **Potash**☐ **Oil Shale 190-5**☐ **Oil Shale 190-3**☐ **Oil Shale 190-13**☒ **Water Permit:** Duchesne City Culinary Water Dock☐ **RDCC Review:**☐ **Fee Surface Agreement**☐ **Intent to Commingle****Commingle Approved****LOCATION AND SITING:**☐ **R649-2-3.****Unit:**☐ **R649-3-2. General**☐ **R649-3-3. Exception**☒ **Drilling Unit****Board Cause No:** Cause 139-84**Effective Date:** 12/31/2008**Siting:** 660' Fr Drl U Bdry & 1320' Fr Other Wells☒ **R649-3-11. Directional Drill****Comments:** Presite Completed**Stipulations:** 4 - Federal Approval - dmason  
15 - Directional - dmason





GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** 16-1D-46 BTR  
**API Well Number:** 43013506750000  
**Lease Number:** 2OG0005608  
**Surface Owner:** INDIAN  
**Approval Date:** 4/18/2011

**Issued to:**

BILL BARRETT CORP, 1099 18th Street Ste 2300, Denver, CO 80202

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

**Reporting Requirements:**



All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**

A handwritten signature in black ink, appearing to read "John Rogers", written over a horizontal line.

For John Rogers  
Associate Director, Oil & Gas



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 14 2011

FORM APPROVED  
OMB No. 1004-0136  
Expires July 31, 2010

## APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. 20G0005608
1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator BILL BARRETT CORPORATION Contact: TRACEY FALLANG E-Mail: tfallang@billbarrettcorp.com		7. If Unit or CA Agreement, Name and No.
3a. Address 1099 18TH STREET, SUITE 2300 DENVER, CO 80202	3b. Phone No. (include area code) Ph: 303-312-8134	8. Lease Name and Well No. 16-1D-46 BTR
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface SESE 472FSL 1305FEL At proposed prod. zone SESE 660FSL 660FEL		9. API Well No. 42-013-50675
14. Distance in miles and direction from nearest town or post office* 10.8 MILES SW OF DUCHESNE, UT		10. Field and Pool, or Exploratory ALTAMONT/WSTCH-LWR GR
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 660	16. No. of Acres in Lease 66101.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 1 T4S R6W Mer UBM
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 4520	19. Proposed Depth 8560 MD 8500 TVD	12. County or Parish DUCHESNE
21. Elevations (Show whether DF, KB, RT, GL, etc.) 6020 GL	22. Approximate date work will start 09/01/2011	13. State UT
23. Estimated duration 60 (D&C)		17. Spacing Unit dedicated to this well 160.00
20. BLM/BIA Bond No. on file LPM 8874725		
24. Attachments		

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) TRACEY FALLANG Ph: 303-312-8134	Date 04/14/2011
Title REGULATORY MANAGER		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date AUG 17 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

Electronic Submission #106473 verified by the BLM Well Information System  
For BILL BARRETT CORPORATION, sent to the Vernal  
Committed to AFMSS for processing by ROBIN R. HANSEN on 04/20/2011 ()

UDOGM

NOTICE OF APPROVAL  
CONDITIONS OF APPROVAL ATTACHED

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

11/25/2011

RECEIVED

AUG 23 2011

DIV. OF OIL, GAS &amp; MINING





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Bill Barrett Corporation  
Well No: 16-1D-46 BTR  
API No: 43-013-50675

Location: SESE, Sec.1, T4S, R6W  
Lease No: 2OG0005608  
Agreement: N/A

**OFFICE NUMBER: (435) 781-4400**

**OFFICE FAX NUMBER: (435) 781-3420**

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: <a href="mailto:ut_vn_opreport@blm.gov">ut_vn_opreport@blm.gov</a> .
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.



**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC CONDITIONS OF APPROVAL**

**Additional Stipulations:**

- Production Equipment will be painted Beetle Green to help blend into the surrounding vegetation.
- See Exhibit One of the approved EA U&O-FY11-Q3-058 for additional mitigation measures that must be followed for each of the proposed well locations.

**General Conditions of Approval:**

- A 30' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipelines.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROW's.
- The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.
- You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- Bill Barrett Corporation will implement a "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's, COA's, and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations should be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.



- The personnel from the Ute Tribe Energy & Minerals Department should be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.



**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- A CBL shall be run from TD to Surface on the production casing.
- Gamma Ray Log shall be run from TD to Surface.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.



- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at [www.ONRR.gov](http://www.ONRR.gov).
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of



the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in



hole, and the current status of the surface restoration.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 16-1D-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0472 FSL 1305 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 01 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506750000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>6/1/2012</b>	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> <b>APD EXTENSION</b>  OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 BBC requests a one year extension of this APD. This well is planned to spud in June, 2012.

Approved by the  
Utah Division of  
Oil, Gas and Mining

Date: March 05, 2012

By:

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 3/2/2012	





**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Request for Permit Extension Validation Well Number 43013506750000**

**API:** 43013506750000

**Well Name:** 16-1D-46 BTR

**Location:** 0472 FSL 1305 FEL QTR SESE SEC 01 TWP 040S RNG 060W MER U

**Company Permit Issued to:** BILL BARRETT CORP

**Date Original Permit Issued:** 4/18/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Venessa Langmacher

**Date:** 3/2/2012

**Title:** Senior Permit Analyst **Representing:** BILL BARRETT CORP



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 16-1D-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0472 FSL 1305 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 01 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506750000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: <b>5/12/2012</b>	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 This well was spud on 05/12/2012 by Triple A Drilling at 9:00 am.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 May 16, 2012

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 5/16/2012	



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: Bill Barrett Corporation Operator Account Number: N 2165  
Address: 1099 18th Street, Suite 2300  
city Denver  
state CO zip 80202 Phone Number: (303) 312-8172

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350973	14-31D-36 BTR		SESW	31	3S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18524</u>	<u>5/10/2012</u>			<u>5/14/2012</u>	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 9:00 am. <u>GR-WS BHL SESW</u>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350675	16-1D-46 BTR		SESE	1	4S	6W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18525</u>	<u>5/12/2012</u>			<u>5/14/2012</u>	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 9:00 am. <u>GR-WS BHL SESE</u>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350847	5-27D-37 BTR		SWNW	27	3S	7W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
A	<u>new</u>	<u>18526</u>	<u>5/14/2012</u>			<u>5/14/2012</u>	
<b>Comments:</b> Spudding Operation was conducted by Triple A Drilling @ 6:00 pm. <u>GR-WS BHL SWNW</u>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Venessa Langmacher

Name (Please Print)

Venessa Langmacher

Signature

Sr Permit Analyst

5/16/2012

Title

Date

RECEIVED  
MAY 10 2012

Div. of Oil, Gas & Mining



## BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corporation Rig Name/# Triple A Drilling  
Submitted By Venessa Langmach Phone Number 303-312-8172  
Well Name/Number 16-1D-46 BTR  
Qtr/Qtr SESE Section 1 Township 4S Range 6W  
Lease Serial Number 2OG0005608  
API Number 4301350675

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/11/2012 8:00 AM ☒ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☐ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time \_\_\_\_\_ AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

**RECEIVED****MAY 09 2012**

DIV. OF OIL, GAS &amp; MINING

Date/Time \_\_\_\_\_ AM ☐ PM ☐

Remarks \_\_\_\_\_  
\_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 16-1D-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0472 FSL 1305 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 01 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506750000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

May 2012 monthly drilling activity report is attached.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 June 01, 2012

<b>NAME (PLEASE PRINT)</b> Megan Finnegan	<b>PHONE NUMBER</b> 303 299-9949	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 6/1/2012	



**16-1D-46 BTR 5/24/2012 12:00 - 5/25/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
12:00	18.00	06:00	1	RIGUP & TEARDOWN	RIG DOWN WITH CREWS - SCOPE DERRICK - PREP SUB - LOWER SUB - R/D ALL ELECTRICAL - R/D MUD TANKS - R/D FLOOR - PREP DERRICK TO LOWER

**16-1D-46 BTR 5/25/2012 06:00 - 5/26/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	1	RIGUP & TEARDOWN	MOVE MUD TANKS & SET ON NEW LOCATION - LOWER DERRICK MOVE BACK YARD & R/U ON NEW LOCATION - SET MATTING BOARDS, SET SUBS R/U ELECTRICAL - RIG IS 90% MOVED & 60% RIGGED UP

**16-1D-46 BTR 5/26/2012 06:00 - 5/27/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	6.00	12:00	1	RIGUP & TEARDOWN	MOVING WITH TRUCKING COMPANY, MOVE CAMPS SET SOLIDS CONTROL EQUIPMENT - MOVE MIS EQUIPMENT & R/U WITH CREWS - RELEASE TRUCK S @ 12:00 PM
12:00	18.00	06:00	8	REPAIR RIG	CUT OFF PADEYES ON SUB START WELDING ON NEW PADEYES - CUT & WELD ON DERRICK - INPECT TONGS, BALES & ELEV, CLEAN RIG

**16-1D-46 BTR 5/27/2012 06:00 - 5/28/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	8	REPAIR RIG	WELD PAD EYES ON SUB - WELD ON DERRICK - INSPECT TONGS BALES & ELEV - INSPECT PRAGMA - WELD ON DERRICK BOARD

**16-1D-46 BTR 5/28/2012 06:00 - 5/29/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	8	REPAIR RIG	FINSIH WELDING SUB PAD EYES - FINISH WELDING ON DERRICK BOARD - INSPECT WELDS - PAINT DERRICK, FLOOR TOOLS, RIG FLOOR, & DRAWWORKS - WAITING ON DAYLIGHT TO START MOVING WITH TRUCKING COMPANY ( BACK ON RIG MOVE @ 6:00AM)

**16-1D-46 BTR 5/29/2012 06:00 - 5/30/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status DRILLING	Total Depth (ftKB) 0.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	9.00	15:00	1	RIGUP & TEARDOWN	MOVING WITH TRUCKING COMPANY - BLEED HYD LINES - SET STARTER LEGS, CENTER SECTION, POSTION DERRICK, PREP DERRICK & PIN DERRICK, RAISE DERRICK, PREP SUB & RAISE SUB, SET STAIRS, 400 BBL UPRIGHT, BOP WRANGLER & PRAGMA
15:00	15.00	06:00	1	RIGUP & TEARDOWN	R/U WITH CREWS - FINISH ALL ELECTRICAL - PUT TONGS BACK TOGETHER - RUN FLARE LINES - R/U MUD LINE - R/U FLOW LINE, SPOOL UP TUGGERS, RAISE V-DOOR



# BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22  
Submitted By Jeremy Mejorado Phone Number 303-353-5350

Well Name/Number 16-1D-46 BTR  
Qtr/Qtr    Section   1   Township 4S Range 6W  
Lease Serial Number   7    
API Number 43-013-50615 50675

Spud Notice – <sup>Rotary</sup> Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 5/30/12 9:00 AM ☐ PM ☒

Casing – Please report time casing run starts, not cementing times.

- |                          |                     |
|--------------------------|---------------------|
| <input type="checkbox"/> | Surface Casing      |
| <input type="checkbox"/> | Intermediate Casing |
| <input type="checkbox"/> | Production Casing   |
| <input type="checkbox"/> | Liner               |
| <input type="checkbox"/> | Other               |

Date/Time \_\_\_\_\_ AM ☐ PM ☐

## BOPE

- |                          |   |
|--------------------------|---|
| <input type="checkbox"/> | Initial BOPE test at surface casing point |
| <input type="checkbox"/> | BOPE test at intermediate casing point    |
| <input type="checkbox"/> | 30 day BOPE test                          |
| <input type="checkbox"/> | Other                                     |

Date/Time AM ☐ PM ☐

Remarks

RECEIVED  
MAY 30 2012  
DIV. OF OIL, GAS & MINING



BLM - Vernal Field Office - Notification Form

Operator Bill Barrett Corp Rig Name/# Nabors M22  
Submitted By Jeremy Mejorado Phone Number 303-353-5350

Well Name/Number 16-1D-46 BTR  
Qtr/Qtr    Section 1 Township 4S Range 6W  
Lease Serial Number                                   
API Number 43-013-50675

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time                      AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☒ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

☒ Date/Time 6/1/12- 11:00 AM ☒ PM

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time                      AM ☐ PM ☐

**RECEIVED**

**JUN 01 2012**

**DIV. OF OIL, GAS & MINING**



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 16-1D-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0472 FSL 1305 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 01 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506750000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/30/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

June 2012 monthly drilling activity report is attached.

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

**FOR RECORD ONLY**

July 03, 2012

<b>NAME (PLEASE PRINT)</b> Megan Finnegan	<b>PHONE NUMBER</b> 303 299-9949	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/3/2012	



**16-1D-46 BTR 6/1/2012 06:00 - 6/2/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	W/ 718 GPM 65 RPM & 12K WT ON BIT
14:00	0.50	14:30	7	LUBRICATE RIG	RIG SERVICE
14:30	1.00	15:30	2	DRILL ACTUAL	W/ 718 GPM 65 RPM & 14K WT ON BIT
15:30	0.50	16:00	5	COND MUD & CIRC	CIRC PUMP HIGH VIS SWEEP
16:00	3.50	19:30	6	TRIPS	WIPER TRIP
19:30	1.00	20:30	5	COND MUD & CIRC	CIRC PUMP 2 HIGH VIS SWEEPS
20:30	2.00	22:30	6	TRIPS	T.O.O.H. - L/D 8" DCs
22:30	1.50	00:00	20	DIRECTIONAL WORK	LAY DOWN DIR TOOLS
00:00	4.00	04:00	12	RUN CASING & CEMENT	R/U CSG CREW & RUN 47 JOINTS 9 5/8 36# J-55 CSG WITH 11 CETRILIZERS - CSG SET @ 2034' - R/D CSG CREW
04:00	1.50	05:30	5	COND MUD & CIRC	CIRC - TWO B/U
05:30	0.50	06:00	12	RUN CASING & CEMENT	R/U CEMENTERS & START CEMENT JOB

**16-1D-46 BTR 6/2/2012 06:00 - 6/3/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.50	08:30	12	RUN CASING & CEMENT	TEST LINES @ 5000 PSI - PUMP 20 BBLS WATER SPACER, 40 BBLS SUPER FLUSH, 20 BBLS WATER SPACER, 169 BBLS 300 SKS 11.0 PPG 3.16 YIELD LEAD CEMENT MIXED @ 19.48 GAL/SK, 50 BBLS 210 SKS 14.8 PPG 1.33 YIELD TAIL CEMENT MIXED @ 6.31 GAL/SK - DROP PLUG & DISPLACE WITH 153.5 BBLS WATER - BUMP PLUG PRESSURE UP 500 PSI OVER TO 980 PSI - CHECK FLOATS - FULL RETURNS DURING JOB - 68 BBLS CEMENT TO SURFACE
08:30	4.50	13:00	21	OPEN	WAITING ON CEMENT & CEMENT CREW
13:00	2.00	15:00	12	RUN CASING & CEMENT	R/U 1" PIPE & PUMP 9 BBLS 50 SKS 15.8 PPG 1.17 YIELD TOP OUT CEMENT MIXED @ 5.02 GAL/SK
15:00	1.00	16:00	21	OPEN	L/D CONDUCTER
16:00	2.00	18:00	21	OPEN	CUT OFF CSG & WELD ON WELL HEAD
18:00	4.00	22:00	14	NIPPLE UP B.O.P	NIPPLE UP BOP
22:00	6.00	04:00	15	TEST B.O.P	R/U TESTER & TEST BOP - TEST LOWER KELLY VALVE, UPPER KELLY VALVE, SAFETY VALVE, DART VALVE, PIPE RAMS, HCR, OUTSIDE KILLLINE VALVE, CHOKE LINE CHECK VALVE, INSIDE MANIFOLD VALVES, OUTSIDE MANIFOLD VALVES, & BLIND RAMS ALL @ 5MIN 250 PSI LOW & 10 MIN 5000 PSI HIGH - TEST ANNULAR @ 5 MIN 250 PSI LOW & 10 MIN 2500 PSI HIGH - CSG @ 30 MIN 1500 PSI - R/D TESTER
04:00	0.50	04:30	21	OPEN	SET WEAR BUSHING
04:30	1.00	05:30	20	DIRECTIONAL WORK	P/U 6" DIR TOOLS - M/U BIT - LOAD MWD TOOL AND OREINT SAME
05:30	0.50	06:00	6	TRIPS	P/U REAMERS - T.I.H.

**16-1D-46 BTR 6/3/2012 06:00 - 6/4/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	6	TRIPS	T.I.H.
07:00	1.50	08:30	2	DRILL ACTUAL	DRLG CEMENT FLOAT & SHOE
08:30	0.50	09:00	2	DRILL ACTUAL	W/ 346 GPM 25 RPM & 7K WT ON BIT
09:00	0.50	09:30	21	OPEN	EMW ( TEST FLUID 8.4 PPG @ 2064') PRESSURE UP TO 225 PSI - PRESSURE BLED DOWN TO 170 PSI EMW=9.9 PPG
09:30	19.00	04:30	2	DRILL ACTUAL	W/558 GPM 40 RPM & 10K WT ON BIT
04:30	0.50	05:00	7	LUBRICATE RIG	RIG SERVICE
05:00	1.00	06:00	2	DRILL ACTUAL	W/ 558 GPM 35 RPM & 10K WT ON BIT

**16-1D-46 BTR 6/4/2012 06:00 - 6/5/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	W/ 558 GPM 35 RPM & 10K WT ON BIT



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
17:30	0.50	18:00	7	LUBRICATE RIG	RIG SERVICE
18:00	12.00	06:00	2	DRILL ACTUAL	W/ 558 GPM 35 RPM & 15K WT ON BIT

**16-1D-46 BTR 6/5/2012 06:00 - 6/6/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	23.50	05:30	2	DRILL ACTUAL	BIT WT= 14K RPM= 50 SPM= 140
05:30	0.50	06:00	7	LUBRICATE RIG	SERVICE RIG AND TOP DRIVE

**16-1D-46 BTR 6/6/2012 06:00 - 6/7/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	BIT WT= 14K RPM= 50 SPM= 120
17:30	0.50	18:00	7	LUBRICATE RIG	SERVICE RIG AND TOP DRIVE
18:00	12.00	06:00	2	DRILL ACTUAL	BIT WT=14K RPM= 50 SPM= 120

**16-1D-46 BTR 6/7/2012 06:00 - 6/8/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	2	DRILL ACTUAL	BIT WT= 14K RPM= 50 SPM= 120
14:00	1.50	15:30	5	COND MUD & CIRC	CIRC. AND COND MUD, PUMP SWEEP, AND DRY JOB FOR TRIP OUT
15:30	3.50	19:00	6	TRIPS	TRIP FOR MWD TOOL ISSUES
19:00	2.00	21:00	20	DIRECTIONAL WORK	CHANGE OUT GAP SUB, AND MUD MOTORS, AND BIT
21:00	4.50	01:30	6	TRIPS	TRIP INTO BTM
01:30	4.50	06:00	2	DRILL ACTUAL	BIT WT= 14K RPM= 50 SPM=120

**16-1D-46 BTR 6/8/2012 06:00 - 6/9/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	11.50	17:30	2	DRILL ACTUAL	BIT WT= 15K RPM= 50 SPM= 120
17:30	0.50	18:00	7	LUBRICATE RIG	SERVICE RIG, TOP DRIVE AND PUMPS
18:00	10.50	04:30	2	DRILL ACTUAL	BIT WT= 14K RPM= 50 SPM= 120
04:30	0.50	05:00	7	LUBRICATE RIG	SERVICE RIG, AND TOP DRIVE
05:00	1.00	06:00	2	DRILL ACTUAL	BIT WT= 14K RPM=50 SPM=120

**16-1D-46 BTR 6/9/2012 06:00 - 6/10/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	21.50	03:30	2	DRILL ACTUAL	BIT WT= 14K RPM= 50 SPM= 120
03:30	1.50	05:00	5	COND MUD & CIRC	CIRC. AND COND. MUD PUMP SWEEPS
05:00	1.00	06:00	6	TRIPS	TRIP FOR MWD TOOL FAILURE

**16-1D-46 BTR 6/10/2012 06:00 - 6/11/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.50	09:30	6	TRIPS	TRIP FOR MWD TOOL FAILURE...
09:30	1.00	10:30	20	DIRECTIONAL WORK	CHANGE OUT BATTERIES OUT ON MWD, BATTERIES COMPLETELY DRAINED...
10:30	4.00	14:30	6	TRIPS	TRIP IN THE HOLE
14:30	2.00	16:30	5	COND MUD & CIRC	CIRC. OUT GAS...
16:30	4.00	20:30	2	DRILL ACTUAL	BIT WT= 15K RPM=50 SPM=120
20:30	2.00	22:30	5	COND MUD & CIRC	CIRC. AND COND MUD, TROUBLE SHOOT MWD TOOL ISSUES, PUMP SWEEP AND DRY JOB...
22:30	4.50	03:00	6	TRIPS	TRIP FOR MWD TOOL ISSUES
03:00	3.00	06:00	20	DIRECTIONAL WORK	L/D GAP SUB AND REBUILD NEW MWD TOOL AND RE PROGRAM... AND WAITING ON A GAP SUB...

**16-1D-46 BTR 6/11/2012 06:00 - 6/12/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	4.50	10:30	6	TRIPS	TRIPPING IN THE HOLE
10:30	9.50	20:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 50 SPM= 120
20:00	2.50	22:30	20	DIRECTIONAL WORK	TROUBLE SHOOTING MWD TOOL FAILURE... MWD IS FLOPPING BACK AND FORTH BETWEEN MAGNETICS AND GRAVITY WITH A 1.2 DEGREE IN THE HOLE
22:30	1.00	23:30	5	COND MUD & CIRC	CIRC. & COND. MUD FOR TRIP OUT FOR MWD TOOL'S...
23:30	5.00	04:30	6	TRIPS	TRIP FOR MWD TOOL FAILURE...
04:30	1.50	06:00	20	DIRECTIONAL WORK	CHANGE OUT EMT, AND REPROGRAM TOOL

**16-1D-46 BTR 6/12/2012 06:00 - 6/13/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	5.50	11:30	6	TRIPS	TRIP INTO BTM
11:30	1.00	12:30	5	COND MUD & CIRC	CIRC. OUT GAS
12:30	5.00	17:30	2	DRILL ACTUAL	BIT WT= 15K RPM= 60 SPM= 120
17:30	0.50	18:00	7	LUBRICATE RIG	SERVICE TOP DRIVE AND RIG
18:00	11.50	05:30	2	DRILL ACTUAL	BIT WT= 15K RPM= 60 SPM= 120
05:30	0.50	06:00	7	LUBRICATE RIG	SERVICE RIG AND TOP DRIVE

**16-1D-46 BTR 6/13/2012 06:00 - 6/14/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 60 SPM= 120

**16-1D-46 BTR 6/14/2012 06:00 - 6/15/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	2	DRILL ACTUAL	BIT WT= 15K RPM= 60 SPM= 120
07:00	1.50	08:30	5	COND MUD & CIRC	CIRC. AND COND MUD, PUMP SWEEP AND DRY JOB
08:30	5.00	13:30	6	TRIPS	TRIP OUT FOR LOGS
13:30	1.00	14:30	20	DIRECTIONAL WORK	L/D ALL DIRECTIONAL TOOLS
14:30	8.50	23:00	11	WIRELINE LOGS	R/U HALLIBURTON LOGGERS, AND LOG WELL, R/D THE SAME... LOGGERS DEPTH= 8238.0'
23:00	4.00	03:00	6	TRIPS	TRIP INTO BTM...
03:00	2.50	05:30	5	COND MUD & CIRC	CIRC. OUT TRIP GAS... BUILD PILL...
05:30	0.50	06:00	6	TRIPS	L/D DRILL PIPE...

**16-1D-46 BTR 6/15/2012 06:00 - 6/16/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	8.00	14:00	6	TRIPS	L/D D.P., HWDP, AND DC'S
14:00	0.50	14:30	21	OPEN	PULL WEAR BUSHING
14:30	9.50	00:00	12	RUN CASING & CEMENT	R/U FRANKS CSG. CREW. AND RUN CSG., R/D THE SAME... RAN 185 JT'S OF 5.5" , 17.0#, P-110 CSG. WITH 3 MKR JT'S AND 70 CENTRALIZERS TO A DEPTH OF 8222.41
00:00	2.50	02:30	5	COND MUD & CIRC	CIRC. OUT GAS, AND RIG UP HALLIBURTON CMTERS...
02:30	3.50	06:00	12	RUN CASING & CEMENT	PUMP CMT WITH HALLIBURTON CMTERS AND RIG DOWN THE SAME...

**16-1D-46 BTR 6/16/2012 06:00 - 6/16/2012 15:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	3.00	09:00	14	NIPPLE UP B.O.P	NIPPLE DOWN STACK AND SET SLIPS WITH CAMERON, AND ROUGH CUT CSG... SLIPS SET AT 155,000
09:00	6.00	15:00	21	OPEN	CLEANING STEEL PITS

**16-1D-46 BTR 6/18/2012 06:00 - 6/19/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Clean out Cellar Ring and Mouse Hole. Blade & Clean location.

**16-1D-46 BTR 6/19/2012 06:00 - 6/20/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Arrived on location, Cellar ring was cleaned out by Hyd-a-Vac, There was NO 11" Night cap stalled. P/up 11" night cap, installed night cap over 5.5" rough cut. Back filled cellar ring with gravel. Removed 11" Night cap. Dressed 5.5" casing top, Installed 11" x 7 1/16" B-section. Tested hanger seals, Good test. INSTALLED 7 1/16" NIGHT CAP!. SECURED WELL HEAD !

**16-1D-46 BTR 6/21/2012 06:00 - 6/22/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	GOP	General Operations	WSI And Secured.
07:00	1.00	08:00	SRIG	Rig Up/Down	MIRU SLB W/L Crew And Equipment. Hold Safety Meeting. Rig Up Gauge Ring And Logging Tool.
08:00	5.00	13:00	LOGG	Logging	P/U Junk Basket/Gauge Ring. RIH, Tagged Up At 8,100', FC At 8,132', 32' Of Fill. POOH, P/U CBL Tool, Rih To PBTD, 8,100', Correlating To HES Spectral Density/ Dual Spaced Neutron Dated 06-14-2012. Run Repeat Section From 8,100 - 7,900', Log Up Hole. Showed Good Bond From TD To 4,300', 4,300' - 1,100' Spotty. TOC 1,100'. Ran With Pressure. Found Short Joints At 7,926 - 7,948, 6,934 - 6,953, And 4,489 - 4,509'. Pooh, RD Equipment, MOL.
13:00	17.00	06:00	LOCL	Lock Wellhead & Secure	WSI And Secured

**16-1D-46 BTR 6/22/2012 06:00 - 6/23/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Production Crew Working On Facilities. Started Setting Frac Line, Set Open Tops

**16-1D-46 BTR 6/23/2012 06:00 - 6/24/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Production Crew Working On Facilities. Set Frac Line.

**16-1D-46 BTR 6/24/2012 06:00 - 6/25/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Finished Setting Frac Line. Production Crew Working On Facilities.

**16-1D-46 BTR 6/25/2012 06:00 - 6/26/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Production Crew Working On Facilities. Start Hauling In 3% KCL To Frac Line

**16-1D-46 BTR 6/26/2012 06:00 - 6/27/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Production Crew Con't On Facilities. Con't Hauling In 3% KCL Nipple Up Frac Mandrel, Test Nipple Up Frac Tree, Test With Casing. Rig-Up FlowBack And SandTrap, Test

**16-1D-46 BTR 6/27/2012 06:00 - 6/28/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status COMPLETION	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	GOP	General Operations	Production Crew Working On Facilities. Rig Up FlowBack And SandTrap Berm FlowBack Tanks. Haul In 3% KCL And Produced Water To Frac Line And Staging Area.



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> 16-1D-46 BTR
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>9. API NUMBER:</b> 43013506750000
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0472 FSL 1305 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 01 Township: 04.0S Range: 06.0W Meridian: U		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/11/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> CONVERT WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">           This well had first gas sales on 7/8/2012 and first oil sales on 07/11/2012.         </div> <div style="width: 35%; text-align: right;"> <b>Accepted by the Utah Division of Oil, Gas and Mining</b>  <b>FOR RECORD ONLY</b>            July 18, 2012         </div> </div>		
<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/17/2012	



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 20G0005608
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 16-1D-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0472 FSL 1305 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 01 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506750000
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/31/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 July 2012 monthly drilling activity report is attached.

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 August 06, 2012

<b>NAME (PLEASE PRINT)</b> Megan Finnegan	<b>PHONE NUMBER</b> 303 299-9949	<b>TITLE</b> Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/2/2012	



**16-1D-46 BTR 7/1/2012 06:00 - 7/2/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com

**16-1D-46 BTR 7/2/2012 06:00 - 7/3/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well shut in and secured. Prep Location for frac, Finish filling 13-12 staging area.

**16-1D-46 BTR 7/3/2012 06:00 - 7/4/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	24.00	06:00	LOCL	Lock Wellhead & Secure	Well head shut in and secured. Heat Frac tanks, Set Water Manifold. Set Mountain Movers. Insulator working on production equipment.

**16-1D-46 BTR 7/4/2012 06:00 - 7/5/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	2.00	08:00	CTRL	Crew Travel	Crews traveled from Vernal yard. SLB wireline arrived on location. Safety meeting.
08:00	2.00	10:00	GOP	General Operations	MIRU SLB Wireline equipment. HES Arrived on location and started spotting in frac equipment.
10:00	1.50	11:30	PFRT	Perforating	P/up stg #1, 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip using HES log reference Ran on 6/14/12 log reference Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Perforated stg #1 intervals from 7741' to 8090'. Placed a total of 57 holes in CR-4A, CR-4, CR-3. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to rig up stand pipes to frac head.
11:30	2.00	13:30	GOP	General Operations	HES finished rigging up treating iron.
13:30	16.50	06:00	LOCL	Lock Wellhead & Secure	Secured location and frac tree for the night.

**16-1D-46 BTR 7/5/2012 06:00 - 7/6/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	0.50	06:30	GOP	General Operations	HES Crew arrived @ 04:00, Primed Pumps, Ran QA/QC fluid checks, Completed pressure test on treating iron. Safety Meeting w/ all contractors on location. Equalized Well head pressure. Open Frac tree with 1350 psi on the well.
06:30	1.50	08:00	FRAC	Frac. Job	Pressure tested treating iron @ 8700 psi. Frac'd Stg # 1 of 6, Zone Stg CR-4A, 4, 3. Open Well @ 06:29 Hrs, W/ 1350 Csg psi, 0 Surface & Frac Mandrel, 7 psi. Formation Break Down @ 10.0 bpm, 3202 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 114. Started on 3% KCL Slick Water pad @ 70.9 bpm, 3847 psi. Open Perforation = 37 out of 57 shots, ISIP = 2196 psi, .72 Frac Gradient. Started on X-link pad @ 71.1 bpm, 3775 psi. Start 2#/ Gal 20/40 Prem White sand, 71.1 bpm, 4020 psi 2# 71.1 bpm, 4003 psi 2# On perfs bpm 70.6 @ 3618 psi 3# 70.6 bpm, 3645 psi 3# On perfs bpm 70.8 @ 3122 psi 3.5# 70.7 bpm, 3061 psi 3.5# On perfs bpm 70.7 @ 2995 psi 4# 70.6 bpm, 3009 psi 4# On perfs bpm 70.6 @ 2985 psi On Flush @ 66.7 bpm, 2867 psi. Open Perforation = 57 out of 57 shots, ISDP, 2350 psi, 0.74 Frac Gradient. Max Rate 72.4 bpm, Max Pressure 4347 psi. Avg Rate 70.3 bpm, Avg Pressure 3521 psi Total X-link fluids pumped: 70,341 gals Total 3% Production water pumped: 70,641 gals Total fluid in bbls pumped: 3445 bbls Total Prem White Sand pumped, 20/40 = 165,900#,





Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
08:00	1.50	09:30	PFRT	Perforating	R/U E-line, P/up stg #2, 10K CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip using HES & SLB log reference Ran on 6/14 & 6/21, Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7730', w/ 1950 psi, pulled up & perforated stg #2 intervals from 7417' to 7710'. PooH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #2.
09:30	1.75	11:15	FRAC	Frac. Job	Pressure tested treating iron @ 8900 psi. Frac'd Stg # 2 of 6, Zone Stg CR-2 , Open Well @ 09:36 Hrs, W/ 2000 Csg psi, 24 Surface & Frac Mandrel, 0 psi, Formation Break Down @ 10.2 bpm, 2716 psi. Total Bbls of 15% HCL Pump 10.0 bbls & Bio-Balls pumped 2662. Started on 3% KCL Slick Water pad @ 70.5 bpm, 3769 psi. Open Perforation = 37 out of 45 shots, ISIP = 2189 psi, .73 Frac Gradient. Started on X-link pad @ 70.7 bpm, 3719 psi. Had to shut down in Pad due to gel pro vales not opened correctly. Start 2#/ Gal 20/40 Prem White sand, 70.5 bpm, 3819 psi. 2# 70.5 bpm, 3835 psi 2# On perfs bpm 70.4 @ 3573 psi 3# 70.4 bpm, 3513 psi 3# On perfs bpm 70.6 @ 3283 psi 3.5# 70.6 bpm, 3246 psi 3.5# On perfs bpm 70.5 @ 3191 psi 4# 70.6 bpm, 3196 psi 4# On perfs bpm 70.6 @ 3170 psi On Flush @ 68.5 bpm, 3105 psi. Open Perforation = 45 out of 45 shots, ISDP, 2365 psi, 0.75 Frac Gradient. Max Rate 70.0 bpm, Max Pressure 4602 psi. Avg Rate 67.6 bpm, Avg Pressure 3373 psi Total X-link fluids pumped: 79,393 gals Total 3% Production water pumped: 71.883 gals Total fluid in bbls pumped: 3694 bbls Total Prem White Sand pumped, 20/40 = 172,800#,
11:15	1.50	12:45	PFRT	Perforating	R/U E-line, P/up stg #3, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip using HES / SLB log reference Ran 6-14-12 & 6/21/12. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7348', w/ 1850 psi, pulled up & perforated stg #3 intervals from 7088' to 7328'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #3.
12:45	1.75	14:30	FRAC	Frac. Job	Pressure tested treating iron @ 8901 psi. Frac'd Stg # 3 of 6, Zone Stg CR-2 Wasatch, Open Well @ 1301 Hrs, W/ 769 Csg psi, 15 Surface & Frac Mandrel, 0 psi. Formation Break Down @ 9.6 bpm, 3516 psi. Total Bbls of 15% HCL Pump 92.1 bbls & Bio-Balls pumped 96. Started on 3% KCL Slick Water pad @ 70.5 bpm, 3705 psi. Open Perforation = 33 out of 45 shots, ISIP = 1801 psi, .69 Frac Gradient. Started on X-link pad @ 70.9 bpm, 3808 psi. Start 2#/ Gal 20/40 Prem White sand, 70.9 bpm, 3808 psi 2# 70.7 bpm, 3779 psi 2# On perfs bpm 70.7 @ 3453 psi 3# 70.0 bpm, 3340 psi 3# On perfs bpm 70.3 @ 3166 psi 3.5# 70.0 bpm, 3046 psi 3.5# On perfs bpm 70.3 @ 2957 psi 4# 70.3 bpm, 2950 psi 4# On perfs bpm 70.4 @ 2893 psi On Flush @ 67.8 bpm, 2769 psi. Open Perforation = 45 out of 45 shots, ISDP, 2064 psi, 0.73 Frac Gradient. Max Rate 71.0 bpm, Max Pressure 3916 psi. Avg Rate 70.4 bpm, Avg Pressure 3427 psi Total X-link fluids pumped 67,502 gals Total 3% Production water pumped: 69,078 gals Total fluid in bbls pumped: 3345 bbls Total Prem White Sand pumped, 20/40 = 166,400#,
14:30	1.50	16:00	PFRT	Perforating	R/U E-line, P/up stg #4, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip using HES / SLB log reference Ran 6-14-12 & 6/21/12. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 7079', w/ 1500 psi, pulled up & perforated stg #4 intervals from 6853' to 7064'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #4.



**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
16:00	1.50	17:30	FRAC	Frac. Job	Pressure tested treating iron @ psi. Frac'd Stg # 4 of 6, Zone Stg Ute land Butte & CR-1, Open Well @ 15:55 Hrs, W/ 1638 Csg psi, 6 Surface & Frac Mandrel, 0 psi. Formation Break Down @ 9.4 bpm, 1808 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 96. Started on 3% KCL Slick Water pad @ 70.8 bpm, 3152 psi. Open Perforation = 39 out of 42 shots, ISIP = 1729 psi, .69 Frac Gradient. Started on X-link pad / 1# ppg 100 mesh @ 70.7 bpm, 3223 psi Start 1# Gal 20/40 Prem White sand, 70.5 bpm, 3149 psi 1# 70.5 bpm, 3149 psi 1# On perfs bpm 70.4 @ 3072 psi 2# 70.4 bpm, 3061 psi 2# On perfs bpm 70.2 @ 2888 psi 3# 70.2 bpm, 2811 psi 3# On perfs bpm 70.2 @ 2756 psi 3.5# 70.4 bpm, 2700 psi 3.5# On perfs bpm 70.3 @ 2653 psi 4# 70.3 bpm, 2654 psi 4# On perfs bpm 70.2 @ 2693 psi On Flush @ 70.7 bpm, 2688 psi. Open Perforation = 70.7 out of 2688 shots, ISDP1981, psi, 0.73 Frac Gradient. Max Rate 70.9 bpm, Max Pressure 3425 psi. Avg Rate 70.5 bpm, Avg Pressure 3033psi Total X-link fluids pumped: 81,138 gals Total 3% Production water pumped: 65,502 gals Total fluid in bbls pumped: 3584 bbls Total Prem White Sand pumped, 20/40 = 160,700#, Total 100 Mesh Sand Pumped:20,000#
17:30	1.50	19:00	PFRT	Perforating	R/U E-line, P/up stg #5, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Pressure tested lub, RIH to target depth, ran correlation strip using HES / SLB log reference Ran 6-14-12 & 6/21/12. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 6840', w/ 1900 psi, pulled up & perforated stg #5 intervals from 6707' to 6826'. POOH w/ e-line, L/D Spent guns, All shots fired as design. P/up second set of guns for double gun run.
19:00	1.00	20:00	PFRT	Perforating	R/U E-line, Equaalized Lub, RIH to target depth, ran correlation strip using HES / SLB log reference Ran 6-14-12 & 6/21/12. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Perforated remaining Perf's for stg #5 intervals from 6533' to 6666'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #5 in the AM.
20:00	10.50	06:30	LOCL	Lock Wellhead & Secure	Shut in frac tree for the night.

**16-1D-46 BTR 7/6/2012 06:00 - 7/7/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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**Time Log**

Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	CTRL	Crew Travel	Crews Traveled to location.
07:00	1.00	08:00	GOP	General Operations	HES Crew arrived @ 04:00, Primed Pumps, Ran QA/QC fluid checks, Completed pressure test on treating iron. Safety Meeting w/ all contractors on location.
08:00	1.50	09:30	FRAC	Frac. Job	Pressure tested treating iron @ 8920 psi. Good Test, Frac'd Stg # 5 of 6, Zone Stg Castle Peak. Open Well @ 08:00 Hrs, W/ 800 Csg psi, 0 Surface & Frac Mandrel, 6 psi. Formation Break Down @ 10.4 bpm, 983 psi. Total Bbls of 15% HCL Pump 93 bbls & Bio-Balls pumped 102. Started on 3% KCL Slick Water pad @ 70.5 bpm, 2478 psi. Open Perforation = 45 out of 51 shots, ISIP = 1250 psi, .63 Frac Gradient. Started on X-link pad / 1# ppg 100 mesh @ 70.0 bpm, 2628 psi. Start 1# Gal 20/40 Prem White sand, 70.7 bpm, 2628 psi. 1# 70.5 bpm, 2605 psi 1# On perfs bpm 70.5 @ 2533 psi 2# 70.5 bpm, 2531 psi 2# On perfs bpm 70.5 @ 2399 psi 3# 70.5 bpm, 2361 psi 3# On perfs bpm 70.5 @ 2235 psi, lost hydraulic on over size mover. Extended 3# stage. 3.5# 70.5 bpm, 2235 psi 3.5# On perfs bpm 70.0 @ 2187 psi 4# 70.5 bpm, 2187 psi 4# On perfs bpm 70.0 @ 2220 psi On Flush @ 70.0 bpm, 2200 psi. Open Perforation = 51 out of 51 shots, ISDP, 1537 psi, 0.67 Frac Gradient. Max Rate 71 bpm, Max Pressure 2836 psi. Avg Rate 70.4 bpm, Avg Pressure 2453 psi Total X-link fluids pumped:83,926 gals Total 3% Production water pumped: 66,652 gals Total fluid in bbls pumped: 3678 bbls Total Prem White Sand pumped, 20/40 = 166,000#, Total 100 Mesh Sand Pumped:20,500#
09:30	1.50	11:00	PFRT	Perforating	R/U E-line, P/up stg #6, 10K Fast Drill CBP and 3 1/8", 3104 PJO Perf guns. Equalized lub, RIH to target depth, ran correlation strip using HES / SLB log reference Ran 6-14-12 & 6/21/12. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Set CBP plug @ 6520', w/ 1200 psi, pulled up & perforated stg #6 intervals from 6282' to 6500'. POOH w/ e-line, L/D Spent guns, All shots fired as design. Turned Well over to HES to Frac stg #6.





Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
11:00	1.25	12:15	FRAC	Frac. Job	Pressure tested treating iron @ 8600 psi. Frac'd Stg # 6 of 6, Zone Stg Black Shale. Open Well @ 11:02 Hrs, W/ 1150 Csg psi, -36 Surface & Frac Mandrel, 0 psi. Formation Break Down @ 8.5 bpm, 1329 psi. Total Bbls of 15% HCL Pump 92 bbls & Bio-Balls pumped 84. Started on 3% KCL Slick Water pad @ 70.2 bpm, 2706 psi. Open Perforation = 37 out of 39 shots, ISIP = 1297 psi, .64 Frac Gradient. Started on X-link / 1# ppg 100 mesh pad @ 70.4 bpm, 2749 psi. Start 1# Gal 20/40 Prem White sand, 70.2 bpm, 2772 psi 1# 70.2 bpm, 2772 psi 1# On perfs bpm 70.1 @ 2732 psi 2# 70.0 bpm, 2700 psi 2# On perfs bpm 69.9 @ 2590 psi 3# 69.8 bpm, 2526 psi 3# On perfs bpm 69.9 @ 2397 psi 3.5# 70.0 bpm, 2386 psi 3.5# On perfs bpm 70.1 @ 2316 psi 4# 69.9 bpm, 2308 psi 4# On perfs bpm 70.1 @ 2229 psi On Flush @ 70.3 bpm, 2339 psi. Open Perforation = 39 out of 39 shots, ISDP, 1620 psi, 0.69 Frac Gradient. Max Rate 70.6 bpm, Max Pressure 3046 psi. Avg Rate 70.1 bpm, Avg Pressure 2647 psi Total X-link fluids pumped: 64,587 gals Total 3% Production water pumped: 50,975 gals Total fluid in bbls pumped: 2848 bbls Total Prem White Sand pumped, 20/40 = 114,920# Total 100 Mesh Sand Pumped: 17,160#
12:15	1.50	13:45	WLWK	Wireline	R/U E-line, P/up 10K Fast Drill CBP / Kill plug, RIH to target depth, ran correlation strip using HES / SLB log reference Ran 6-14-12 & 6/21/12. Made depth correction to CCL, drop down to tie in collar, verified CCL was still on depth. Attempt to Set CBP Mis-fire, Pooh with E-line, L/D Setting tool & CBP.
13:45	0.50	14:15	GOP	General Operations	Found that detonator charge was not installed in setting tool.
14:15	1.00	15:15	WLWK	Wireline	Rearmed Baker 20 setting tool & CBP. RIH with Setting tool and CBP, completed tie in. Set CBP / Kill plug @ 6250' with 1300 psi on casing, bled off casing pressure. Kill plug held static test. Pooh with E-line, L/D setting tool.
15:15	2.50	17:45	SRIG	Rig Up/Down	Secured Frac tree. RDMO HES & SLB Wireline, R/D Water manifold & water transfer equipment. Batch frac tanks for completion rig. Hauled off excess production water to the 10-36D-36 BTR.
17:45	12.25	06:00	LOCL	Lock Wellhead & Secure	Secured & policed location for the night.

**16-1D-46 BTR 7/7/2012 06:00 - 7/8/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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Time Log					
Start Time	Dur (hr)	End Time	Code	Category	Com
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI.
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting.
07:30	1.00	08:30	SRIG	Rig Up/Down	MIRU w/o Rig.
08:30	1.00	09:30	BOPI	Install BOP's	Bled off Pressure from Csg. ND Frac tree & Frac Sleeve. NU 7 1/16" 2' 5K Spool. NU 7 1/16" 5K Double gate, NU 7 1/16" 5K Drilling Spool, NU 7 1/16" 5K Annular, & function test.
09:30	0.50	10:00	SRIG	Rig Up/Down	RU work floor & Tbg. equip.
10:00	1.50	11:30	GOP	General Operations	Unload 2 7/8" L80 EUE. 6.5# Tbg. & Prep.
11:30	1.50	13:00	RUTB	Run Tubing	PU 4 3/4" Chomp Mill, 2 7/8" POB sub 3 1/8" O.D. w/float, 1 Jt. 2 7/8" L80 6.5# Tbg., 2.205" XN Nipple, 1 Jt., 2.313" X Nipple, & Tbg. Tag Kill Plug @ 6250'
13:00	0.50	13:30	SRIG	Rig Up/Down	RU Power Swivel.
13:30	3.50	17:00	DOPG	Drill Out Plugs	Establish Circulation w/ Rig pump @ 2 bpm. Returning 2 bpm. Drill out plugs as follows: Plg. @ 6250', Csg.-400# Plg. @ 6520', 15' of sand. Csg.-600# Plg. @ 6840', 10' of sand. Csg.-600# Plg. @ 7079', 15' of sand. Csg.-600#  Circulate bottoms up.
17:00	0.50	17:30	SRIG	Rig Up/Down	RD Power Swivel.
17:30	12.50	06:00	LOCL	Lock Wellhead & Secure	Secure well for the night. WSI.



**16-1D-46 BTR 7/8/2012 06:00 - 7/9/2012 06:00**

API/UWI 43013506750000	State/Province UT	County DUCHESNE	Field Name Black Tail Ridge	Well Status PRODUCING	Total Depth (ftKB) 8,230.0	Primary Job Type Drilling & Completion
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Time Log																																																																																																																						
Start Time	Dur (hr)	End Time	Code	Category	Com																																																																																																																	
06:00	1.00	07:00	LOCL	Lock Wellhead & Secure	WSI.																																																																																																																	
07:00	0.50	07:30	SMTG	Safety Meeting	JSA Safety Meeting																																																																																																																	
07:30	7.00	14:30	DOPG	Drill Out Plugs	Establish Circulation w/ rig pump @ 2 Bpm, Returning 2Bpm. Plg. @ 7348', 5' of sand. Csg.-650# Plg. @ 7730', 10' of sand. Csg.-600 Drill out FC @ 8132' + 40' New PBTD @8172' Circulate bottoms up.																																																																																																																	
14:30	0.50	15:00	SRIG	Rig Up/Down	RD Power Swivel.																																																																																																																	
15:00	1.00	16:00	GOP	General Operations	Lay down Tbg. to Landing depth. Wash bowl w/10 Bbls. PU Hanger & Stage thru BOP Stack & Test. Land Tbg. as follows: Tubing Des: Tubing - ProductionSet Depth (ftKB): 6,220.8Run Date: 2012/07/08 18:00 Pull Date: Tubing Components <table><tr><th>Jts</th><th>Item Des</th><th>OD (in)</th><th>ID (in)</th><th>Wt (lb/ft)</th><th>Grade</th><th>Len (ft)</th><th>Top (ftKB)</th></tr><tr><td>1</td><td>Tubing Hanger</td><td>5</td><td>2.441</td><td>6.5</td><td>L-80</td><td>0.44</td><td>0</td></tr><tr><td>195</td><td>Tubing</td><td>2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>6,153.93</td><td>0.4</td></tr><tr><td>6,154.40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>X Nipple</td><td>2 7/8</td><td>2.313</td><td>6.5</td><td>L-80</td><td>1.25</td><td>6,154.40</td></tr><tr><td>6,155.60</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Tubing</td><td>2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>31.58</td><td>6,155.60</td></tr><tr><td>6,187.20</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>XN Nipple</td><td>2 7/8</td><td>2.205</td><td>6.5</td><td>L-80</td><td>1.19</td><td>6,187.20</td></tr><tr><td>6,188.40</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>Tubing</td><td>2 7/8</td><td>2.441</td><td>6.5</td><td>L-80</td><td>31.59</td><td>6,188.40</td></tr><tr><td>6,220.00</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>1</td><td>POB sub</td><td>3 1/8</td><td>2.441</td><td></td><td></td><td>0.85</td><td>6,220.00</td></tr><tr><td>6,220.80</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>		Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	1	Tubing Hanger	5	2.441	6.5	L-80	0.44	0	195	Tubing	2 7/8	2.441	6.5	L-80	6,153.93	0.4	6,154.40								1	X Nipple	2 7/8	2.313	6.5	L-80	1.25	6,154.40	6,155.60								1	Tubing	2 7/8	2.441	6.5	L-80	31.58	6,155.60	6,187.20								1	XN Nipple	2 7/8	2.205	6.5	L-80	1.19	6,187.20	6,188.40								1	Tubing	2 7/8	2.441	6.5	L-80	31.59	6,188.40	6,220.00								1	POB sub	3 1/8	2.441			0.85	6,220.00	6,220.80							
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16:00	0.50	16:30	SRIG	Rig Up/Down	RD Tbg. equip. & work Floor.																																																																																																																	
16:30	0.50	17:00	BOPR	Remove BOP's	Nipple around.																																																																																																																	
17:00	1.00	18:00	GOP	General Operations	Pump off Bit & chase w/ 30 Bbls @ 4 bpm. Tie in sand can to sales line. Put well on Production.																																																																																																																	
18:00	12.00	06:00	SRIG	Rig Up/Down	RDMO w/o Rig. Move Rig & equip. to the windy ridge Cost\$																																																																																																																	



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 1420H626444
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> Ute
<b>2. NAME OF OPERATOR:</b> BILL BARRETT CORP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1099 18th Street Ste 2300 , Denver, CO, 80202		<b>8. WELL NAME and NUMBER:</b> 16-1D-46 BTR
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0472 FSL 1305 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SESE Section: 01 Township: 04.0S Range: 06.0W Meridian: U		<b>9. API NUMBER:</b> 43013506750000
<b>PHONE NUMBER:</b> 303 312-8164 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input style="width: 100px;" type="text" value="Lease Number"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>8/27/2012</b>			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

The tribal lease was earned for this section, therefore, the updated lease number is 1420H626444.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 August 29, 2012

<b>NAME (PLEASE PRINT)</b> Venessa Langmacher	<b>PHONE NUMBER</b> 303 312-8172	<b>TITLE</b> Senior Permit Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 8/27/2012	



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

1a. Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other			5. Lease Serial No. 20G0005608		
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____			6. If Indian, Allottee or Tribe Name		
2. Name of Operator BILL BARRETT CORPORATION Contact: MEGAN FINNEGAN E-Mail: mfinnegan@billbarrettcorp.com			7. Unit or CA Agreement Name and No.		
3. Address 1099 18TH STREET SUITE 2300 DENVER, CO 80202			8. Lease Name and Well No. 16-1D-46 BTR ✓		
3a. Phone No. (include area code) Ph: 303-299-9949			9. API Well No. 43-013-50675		
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface SESE 472FSL 1305FEL  At top prod interval reported below SESE 783FSL 817FEL  At total depth SESE 733FSL 837FEL <b>BAL by HSM</b>			10. Field and Pool, or Exploratory ALTAMONT		
14. Date Spudded 05/12/2012			11. Sec., T., R., M., or Block and Survey or Area Sec 1 T4S R6W Mer UBM		
15. Date T.D. Reached 06/14/2012			12. County or Parish DUCHESTER		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 07/08/2012			13. State UT		
17. Elevations (DF, KB, RT, GL)* 6020 GL					

18. Total Depth: MD 8230 TVD 8168	19. Plug Back T.D.: MD 8133 TVD 8071	20. Depth Bridge Plug Set: MD TVD
--------------------------------------	---	--------------------------------------

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL, TEMP, TRIPLE COMBO, BOREHOLE	22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit analysis)
--	--

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	16.000 COND	65.0	0	80	80			0	
12.250	9.625 J-55	36.0	0	2044	2034	300	169	0	
8.750	5.500 P-110	17.0	0	8230	8222	1330	445	1400	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	6221							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) GREEN RIVER	6282	7064	6282 TO 7064	0.440	132	OPEN
B) WASATCH	7088	8090	7088 TO 8090	0.440	144	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6282 TO 7064	GREEN RIVER: SEE TREATMENT STAGES 4 - 6
7088 TO 8090	WASATCH: SEE TREATMENT STAGES 1 - 3

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
07/08/2012	07/12/2012	24	→	582.0	268.0	652.0	52.0		FLows FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
24/64	825	1850.0	→	582	268	652	460	POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #148695 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

RECEIVED

SEP 1 2012



**28b. Production - Interval C**

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

**28c. Production - Interval D**

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

**29. Disposition of Gas (Sold, used for fuel, vented, etc.)**  
**SOLD**
**30. Summary of Porous Zones (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**31. Formation (Log) Markers**

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	2443
				MAHOGANY	3109
				DOUGLAS CREEK	5474
				BLACK SHALE	6278
				CASTLE PEAK	6539
				UTELAND BUTTE	6847
				WASATCH	7079
				TD	8230

**32. Additional remarks (include plugging procedure):**

Conductor was cemented with grout. TOC was calculated by CBL. CBL and Temp log mailed due to file size. First gas sales was on 7/8/2012. First oil sales was on 7/11/2012. Attached is Treatment Data.

**33. Circle enclosed attachments:**

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis   | 7 Other:      |                       |

**34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):**

Electronic Submission #148695 Verified by the BLM Well Information System.  
For BILL BARRETT CORPORATION, sent to the Vernal

Name (please print) MEGAN FINNEGAN

Title PERMIT ANALYST

Signature  (Electronic Submission)

Date 09/04/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**\*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\* ORIGINAL \*\***



**16-1D-46 BTR Report Continued\***

44. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. (cont.)			
AMOUNT AND TYPE OF MATERIAL			
<u>Stage</u>	<u>Bbls Slurry</u>	<u>lbs Common White 100 Mesh Sand</u>	<u>lbs 20/40 White Sand</u>
1	3,628		55,032
2	3,881		57,375
3	3,524		55,629
4	3,786	20,000	167,000
5	3,879	20,500	166,000
6	2,997	17,160	124,920

\*Depth intervals for frac information same as perforation record intervals.





**Bill Barrett Corporation**

## **Bill Barrett Corp. (II)**

**Duchesne Co., UT (NAD27)**

**Sec.1-T4S-R6W**

**#16-1D-46 BTR**

**Wellbore #1**

**Survey: Survey #1**

## **Standard Survey Report**

**15 June, 2012**



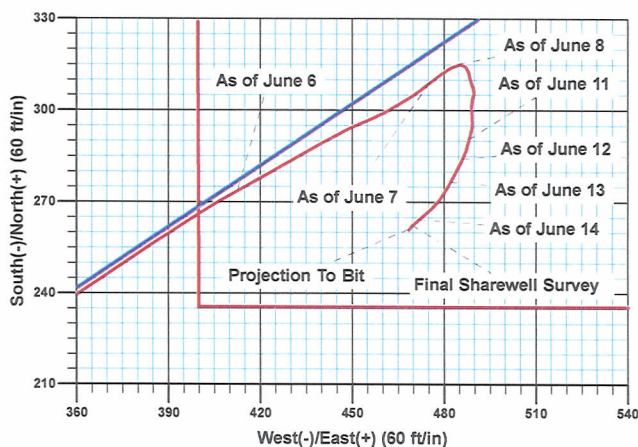
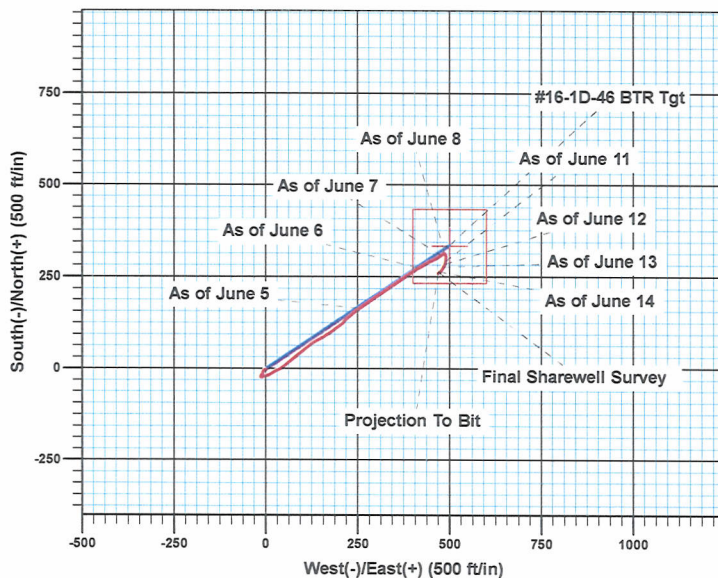
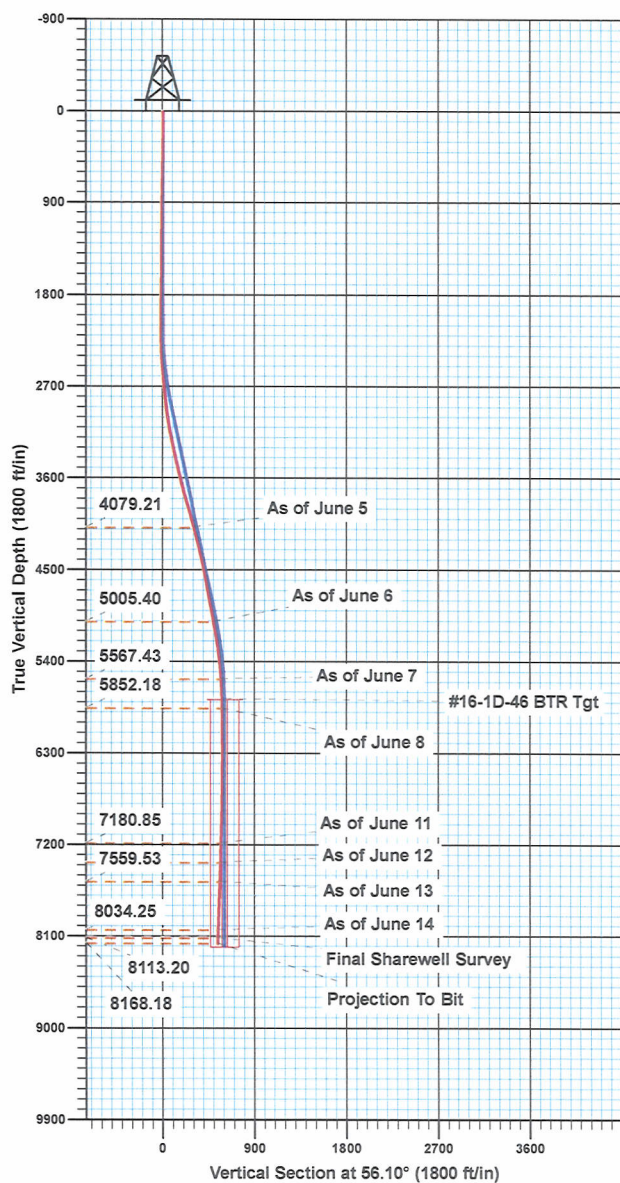




Bill Barrett Corporation

# #16-1D-46 BTR

+N/-S +E/-W Northing Easting Latitude Longitude  
 0.00 0.00 665414.14 2277803.30 40° 9' 21.62 N 110° 30' 21.88 W  
 US State Plane 1927 (Exact solution)  
 Utah Central 4302  
 WELL @ 6037.01ft  
 Sec.1-T4S-R6W



MAzimuths to True North  
 Magnetic North: 11.39°  
 Magnetic Field  
 Strength: 52174.7nT  
 Dip Angle: 65.78°  
 Date: 05/09/2012  
 Model: IGRF2010

TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation
4079.21	4114.00	14.700	53.60	164.78	250.73	300.01	359.50	As of June 5
5005.40	5061.00	9.000	60.30	274.09	412.51	495.26	554.84	As of June 6
5567.43	5628.00	3.900	52.40	309.42	475.38	567.15	627.13	As of June 7
5852.18	5913.00	0.800	57.70	315.38	484.72	578.22	638.32	As of June 8
7180.85	7242.00	2.100	197.90	290.72	488.00	567.19	666.90	As of June 11
7369.72	7431.00	2.400	212.40	284.16	485.77	561.69	673.91	As of June 12
7559.53	7621.00	2.700	213.40	276.76	481.94	554.38	682.28	As of June 13
8034.25	8096.00	2.100	230.20	264.39	471.41	538.73	698.69	As of June 14
8113.20	8175.00	1.800	220.90	262.52	469.49	536.10	701.38	Final Sharewell Survey
8168.18	8230.00	1.800	220.90	261.22	468.36	534.43	703.11	Projection To Bit



**Company:** Bill Barrett Corp. (II)  
**Project:** Duchesne Co., UT (NAD27)  
**Site:** Sec. 1-T4S-R6W  
**Well:** #16-1D-46 BTR  
**Wellbore:** Wellbore #1  
**Design:** OH

**Local Co-ordinate Reference:** Well #16-1D-46 BTR  
**TVD Reference:** WELL @ 6037.01ft  
**MD Reference:** WELL @ 6037.01ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** CompassVM

<b>Project</b>	Duchesne Co., UT (NAD27)		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Utah Central 4302		

<b>Site</b>	Sec. 1-T4S-R6W		
<b>Site Position:</b>		<b>Northing:</b>	665,414.16 usft
<b>From:</b>	Lat/Long	<b>Easting:</b>	2,277,803.30 usft
<b>Position Uncertainty:</b>	0.00 ft	<b>Slot Radius:</b>	1.10 ft
		<b>Latitude:</b>	40° 9' 21.62 N
		<b>Longitude:</b>	110° 30' 21.88 W
		<b>Grid Convergence:</b>	0.64 °

<b>Well</b>	#16-1D-46 BTR		
<b>Well Position</b>	+N/-S	0.00 ft	<b>Northing:</b> 665,414.15 usft
	+E/-W	0.00 ft	<b>Easting:</b> 2,277,803.30 usft
<b>Position Uncertainty</b>	0.00 ft	<b>Wellhead Elevation:</b>	ft
		<b>Latitude:</b>	40° 9' 21.62 N
		<b>Longitude:</b>	110° 30' 21.88 W
		<b>Ground Level:</b>	6,015.01 ft

<b>Wellbore</b>	Wellbore #1				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	05/09/12	11.39	65.78	52,175

<b>Design</b>	OH				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	56.10	

<b>Survey Program</b>	Date 06/15/12				
<b>From (ft)</b>	<b>To (ft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
115.00	8,230.00	Survey #1 (Wellbore #1)	MWD	MWD - Standard	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.000	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
115.00	0.800	287.10	115.00	0.24	-0.77	-0.51	0.70	0.70	0.00
209.00	1.000	248.40	208.99	0.13	-2.16	-1.72	0.67	0.21	-41.17
302.00	1.100	251.20	301.97	-0.46	-3.76	-3.37	0.12	0.11	3.01
395.00	0.500	205.80	394.96	-1.11	-4.78	-4.59	0.89	-0.65	-48.82
487.00	1.200	229.70	486.95	-2.10	-5.69	-5.89	0.84	0.76	25.98
579.00	1.300	210.60	578.93	-3.62	-6.95	-7.79	0.46	0.11	-20.76
671.00	1.000	241.60	670.91	-4.90	-8.19	-9.53	0.74	-0.33	33.70
763.00	1.200	177.00	762.90	-6.24	-8.85	-10.82	1.29	0.22	-70.22
856.00	1.500	194.70	855.87	-8.39	-9.11	-12.24	0.55	0.32	19.03



**Company:** Bill Barrett Corp. (II)  
**Project:** Duchesne Co., UT (NAD27)  
**Site:** Sec. 1-T4S-R6W  
**Well:** #16-1D-46 BTR  
**Wellbore:** Wellbore #1  
**Design:** OH

**Local Co-ordinate Reference:** Well #16-1D-46 BTR  
**TVD Reference:** WELL @ 6037.01ft  
**MD Reference:** WELL @ 6037.01ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** CompassVM

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
955.00	0.700	230.60	954.85	-10.03	-9.90	-13.81	1.03	-0.81	36.26
1,051.00	0.800	173.50	1,050.85	-11.07	-10.28	-14.70	0.75	0.10	-59.48
1,144.00	0.400	77.30	1,143.84	-11.64	-9.89	-14.70	1.00	-0.43	-103.44
1,239.00	0.600	224.20	1,238.84	-11.92	-9.91	-14.88	1.01	0.21	154.63
1,333.00	0.800	197.40	1,332.84	-12.90	-10.45	-15.87	0.40	0.21	-28.51
1,428.00	0.600	224.60	1,427.83	-13.89	-11.00	-16.88	0.40	-0.21	28.63
1,523.00	0.700	243.70	1,522.82	-14.50	-11.87	-17.94	0.25	0.11	20.11
1,618.00	0.400	249.10	1,617.82	-14.88	-12.70	-18.84	0.32	-0.32	5.68
1,713.00	1.200	196.40	1,712.81	-15.95	-13.29	-19.93	1.06	0.84	-55.47
1,808.00	1.300	232.00	1,807.79	-17.57	-14.42	-21.77	0.81	0.11	37.47
1,903.00	0.400	154.40	1,902.78	-18.53	-15.12	-22.89	1.34	-0.95	-81.68
1,976.00	0.600	175.80	1,975.78	-19.14	-14.99	-23.12	0.37	0.27	29.32
2,044.00	0.600	175.80	2,043.77	-19.85	-14.93	-23.47	0.00	0.00	0.00
2,121.00	0.800	210.00	2,120.77	-20.72	-15.17	-24.15	0.59	0.26	44.42
2,216.00	1.600	86.20	2,215.75	-21.21	-14.18	-23.60	2.26	0.84	-130.32
2,311.00	2.000	69.40	2,310.71	-20.53	-11.31	-20.84	0.69	0.42	-17.68
2,406.00	3.300	74.20	2,405.60	-19.21	-7.12	-16.63	1.39	1.37	5.05
2,501.00	5.500	79.30	2,500.32	-17.62	-0.02	-9.84	2.35	2.32	5.37
2,596.00	5.200	62.10	2,594.91	-14.76	8.26	-1.38	1.71	-0.32	-18.11
2,691.00	6.100	52.90	2,689.45	-9.70	16.09	7.95	1.34	0.95	-9.68
2,786.00	5.700	67.80	2,783.95	-4.87	24.49	17.61	1.66	-0.42	15.68
2,881.00	6.200	60.20	2,878.44	-0.54	33.31	27.34	0.98	0.53	-8.00
2,976.00	8.300	56.80	2,972.68	5.77	43.50	39.32	2.26	2.21	-3.58
3,071.00	9.500	48.10	3,066.54	14.76	55.07	53.94	1.89	1.26	-9.16
3,166.00	11.900	51.00	3,159.88	26.16	68.52	71.46	2.59	2.53	3.05
3,260.00	12.100	52.30	3,251.82	38.28	83.85	90.94	0.36	0.21	1.38
3,356.00	11.900	50.60	3,345.73	50.72	99.46	110.84	0.42	-0.21	-1.77
3,450.00	13.400	49.60	3,437.44	63.93	115.24	131.31	1.61	1.60	-1.06
3,545.00	12.700	58.70	3,530.00	76.49	132.55	152.68	2.28	-0.74	9.58
3,640.00	13.400	63.80	3,622.55	86.78	151.35	174.02	1.42	0.74	5.37
3,735.00	15.900	55.30	3,714.46	99.05	171.93	197.95	3.46	2.63	-8.95
3,830.00	17.100	53.70	3,805.55	114.73	193.89	224.91	1.35	1.26	-1.68
3,925.00	15.900	45.20	3,896.65	132.17	214.38	251.65	2.83	-1.26	-8.95
4,019.00	14.700	46.90	3,987.32	149.39	232.23	276.07	1.36	-1.28	1.81
4,114.00	14.700	53.60	4,079.21	164.78	250.73	300.01	1.79	0.00	7.05
<b>As of June 5</b>									
4,208.00	15.600	58.00	4,169.95	178.56	271.05	324.56	1.55	0.96	4.68
4,302.00	13.900	55.20	4,260.85	191.70	291.04	348.49	1.96	-1.81	-2.98
4,397.00	12.200	54.80	4,353.39	204.00	308.61	369.93	1.79	-1.79	-0.42
4,492.00	11.200	53.10	4,446.42	215.32	324.20	389.18	1.11	-1.05	-1.79
4,587.00	11.500	55.60	4,539.56	226.21	339.39	407.87	0.61	0.32	2.63
4,682.00	11.300	56.80	4,632.68	236.66	354.99	426.64	0.33	-0.21	1.26
4,776.00	10.600	55.40	4,724.97	246.61	369.81	444.50	0.80	-0.74	-1.49
4,871.00	10.500	56.30	4,818.37	256.38	384.21	461.89	0.20	-0.11	0.95



**Company:** Bill Barrett Corp. (II)  
**Project:** Duchesne Co., UT (NAD27)  
**Site:** Sec.1-T4S-R6W  
**Well:** #16-1D-46 BTR  
**Wellbore:** Wellbore #1  
**Design:** OH

**Local Co-ordinate Reference:** Well #16-1D-46 BTR  
**TVD Reference:** WELL @ 6037.01ft  
**MD Reference:** WELL @ 6037.01ft  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature  
**Database:** CompassVM

**Survey**

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,966.00	10.500	57.80	4,911.78	265.79	398.73	479.20	0.29	0.00	1.58
5,061.00	9.000	60.30	5,005.40	274.09	412.51	495.26	1.64	-1.58	2.63
<b>As of June 6</b>									
5,155.00	10.100	60.60	5,098.10	281.78	426.08	510.81	1.17	1.17	0.32
5,250.00	9.700	60.20	5,191.68	289.84	440.28	527.10	0.43	-0.42	-0.42
5,345.00	6.400	67.60	5,285.74	295.84	452.13	540.27	3.63	-3.47	7.79
5,440.00	5.500	63.30	5,380.22	299.90	461.09	549.98	1.06	-0.95	-4.53
5,535.00	5.800	54.30	5,474.76	304.75	469.05	559.29	0.98	0.32	-9.47
5,628.00	3.900	52.40	5,567.43	309.42	475.38	567.15	2.05	-2.04	-2.04
<b>As of June 7</b>									
5,723.00	2.600	52.20	5,662.27	312.71	479.64	572.52	1.37	-1.37	-0.21
5,818.00	1.800	70.70	5,757.20	314.53	482.75	576.11	1.12	-0.84	19.47
5,913.00	0.800	57.70	5,852.18	315.38	484.72	578.22	1.09	-1.05	-13.68
<b>As of June 8</b>									
6,008.00	0.700	131.20	5,947.17	315.35	485.72	579.03	0.95	-0.11	77.37
6,103.00	1.200	116.50	6,042.16	314.52	487.04	579.67	0.58	0.53	-15.47
6,198.00	1.700	176.30	6,137.13	312.67	488.02	579.46	1.59	0.53	62.95
6,293.00	0.800	153.90	6,232.11	310.67	488.41	578.66	1.06	-0.95	-23.58
6,388.00	0.200	352.50	6,327.11	310.24	488.68	578.64	1.04	-0.63	-169.89
6,482.00	1.300	166.50	6,421.10	309.36	488.90	578.34	1.59	1.17	185.11
6,577.00	1.100	160.30	6,516.08	307.46	489.46	577.74	0.25	-0.21	-6.53
6,672.00	0.800	179.40	6,611.07	305.94	489.78	577.16	0.46	-0.32	20.11
6,767.00	1.800	201.50	6,706.04	303.89	489.24	575.56	1.16	1.05	23.26
6,862.00	1.500	173.80	6,801.00	301.26	488.83	573.76	0.89	-0.32	-29.16
6,957.00	1.800	180.10	6,895.96	298.53	488.96	572.34	0.37	0.32	6.63
7,052.00	1.100	168.60	6,990.93	296.15	489.13	571.16	0.79	-0.74	-12.11
7,147.00	1.800	195.20	7,085.90	293.81	488.92	569.68	1.00	0.74	28.00
7,242.00	2.100	197.90	7,180.85	290.72	488.00	567.19	0.33	0.32	2.84
<b>As of June 11</b>									
7,336.00	2.000	191.00	7,274.79	287.47	487.16	564.68	0.28	-0.11	-7.34
7,431.00	2.400	212.40	7,369.72	284.16	485.77	561.69	0.95	0.42	22.53
<b>As of June 12</b>									
7,526.00	2.500	201.70	7,464.63	280.56	483.94	558.15	0.49	0.11	-11.26
7,621.00	2.700	213.40	7,559.54	276.76	481.94	554.38	0.60	0.21	12.32
<b>As of June 13</b>									
7,716.00	1.800	209.80	7,654.46	273.60	479.97	550.98	0.96	-0.95	-3.79
7,811.00	2.100	215.70	7,749.41	270.89	478.21	548.01	0.38	0.32	6.21
7,906.00	1.800	228.40	7,844.35	268.49	476.08	544.90	0.55	-0.32	13.37
8,001.00	1.800	228.00	7,939.30	266.50	473.86	541.94	0.01	0.00	-0.42
8,096.00	2.100	230.20	8,034.25	264.39	471.41	538.73	0.33	0.32	2.32
<b>As of June 14</b>									
8,175.00	1.800	220.90	8,113.20	262.52	469.49	536.10	0.55	-0.38	-11.77
<b>Final Sharewell Survey</b>									
8,230.00	1.800	220.90	8,168.18	261.22	468.36	534.43	0.00	0.00	0.00
<b>Projection To Bit</b>									





Sharewell  
Survey Report



Company: Bill Barrett Corp. (II)  
Project: Duchesne Co., UT (NAD27)  
Site: Sec.1-T4S-R6W  
Well: #16-1D-46 BTR  
Wellbore: Wellbore #1  
Design: OH

Local Co-ordinate Reference: Well #16-1D-46 BTR  
TVD Reference: WELL @ 6037.01ft  
MD Reference: WELL @ 6037.01ft  
North Reference: True  
Survey Calculation Method: Minimum Curvature  
Database: CompassVM

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
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Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
4,114.00	4,079.21	164.78	250.73	As of June 5
5,061.00	5,005.40	274.09	412.51	As of June 6
5,628.00	5,567.43	309.42	475.38	As of June 7
5,913.00	5,852.18	315.38	484.72	As of June 8
7,242.00	7,180.85	290.72	488.00	As of June 11
7,431.00	7,369.72	284.16	485.77	As of June 12
7,621.00	7,559.54	276.76	481.94	As of June 13
8,096.00	8,034.25	264.39	471.41	As of June 14
8,175.00	8,113.20	262.52	469.49	Final Sharewell Survey
8,230.00	8,168.18	261.22	468.36	Projection To Bit

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_



Effective Date: 11/1/2016

<b>FORMER OPERATOR:</b>	<b>NEW OPERATOR:</b>
Bill Barrett Corporation 1099 18th Street, Suite 2300 Denver, CO 80202	Rig II, LLC 1582 West 2600 South Woods Cross, UT 84087
CA Number(s):	Unit(s):

**WELL INFORMATION:**

Well Name	Sec	TWN	RNG	API	Entity	Mineral	Surface	Type	Status
See Attached List									

**OPERATOR CHANGES DOCUMENTATION:**

1. Sundry or legal documentation was received from the **FORMER** operator on: 10/21/2016
2. Sundry or legal documentation was received from the **NEW** operator on: 10/21/2016
3. New operator Division of Corporations Business Number: 8256968-0160

**REVIEW:**

1. Surface Agreement Sundry from **NEW** operator on Fee Surface wells received on: N/A
2. Receipt of Acceptance of Drilling Procedures for APD on: 10/21/2016
3. Reports current for Production/Disposition & Sundries: 11/2/2016
4. OPS/SI/TA well(s) reviewed for full cost bonding: 11/3/2016
5. UIC5 on all disposal/injection/storage well(s) approved on: 11/3/2016
6. Surface Facility(s) included in operator change: None
7. Inspections of PA state/fee well sites complete on (only upon operators request): 11/3/2016

**NEW OPERATOR BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: UTB000712
2. Indian well(s) covered by Bond Number: LPM 922467
3. State/fee well(s) covered by Bond Number(s): 9219529

**DATA ENTRY:**

1. Well(s) update in the **OGIS** on: 11/7/2016
2. Entity Number(s) updated in **OGIS** on: 11/7/2016
3. Unit(s) operator number update in **OGIS** on: N/A
4. Surface Facilities update in **OGIS** on: N/A
5. State/Fee well(s) attached to bond(s) in **RBDMS** on: 11/7/2016
6. Surface Facilities update in **RBDMS** on: N/A

**COMMENTS:**



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

Well Name	Sec	TWN	RNG	API Number	Entity	Mineral	Surface	Type	Status
SWD 9-36 BTR	9	030S	060W	4301350646	18077	Indian	Fee	WD	A
16-6D-46 BTR SWD	6	040S	060W	4301350781	18327	Indian	Fee	WD	A
6-32-36 BTR SWD	32	030S	060W	4301350921	18329	Indian	Fee	WD	A
LC TRIBAL 8-26D-47	26	040S	070W	4301334024		Indian	Indian	OW	APD
16-21D-37 BTR	21	030S	070W	4301350758		Indian	Fee	OW	APD
14-11D-37 BTR	11	030S	070W	4301350862		Indian	Fee	OW	APD
7-17D-46 BTR	17	040S	060W	4301350883		Indian	Indian	OW	APD
14-12D-37 BTR	12	030S	070W	4301350894		Indian	Fee	OW	APD
1-18D-36 BTR	18	030S	060W	4301350922		Indian	Fee	OW	APD
13-2D-45 BTR	2	040S	050W	4301350931		Indian	Indian	OW	APD
5H-16-46 BTR	16	040S	060W	4301350992		Indian	Indian	OW	APD
9H-17-45 BTR	17	040S	050W	4301351098		Indian	Indian	OW	APD
13H-8-46 BTR UB	8	040S	060W	4301351124		Indian	Indian	OW	APD
8H-9-46 BTR	9	040S	060W	4301351140		Indian	Indian	OW	APD
LC TRIBAL 7-31D-37	31	030S	070W	4301351147		Indian	Fee	OW	APD
14-16D-45 BTR	16	040S	050W	4301351178		Indian	Indian	OW	APD
16-19D-37 BTR	19	030S	070W	4301351179		Indian	Fee	OW	APD
6-2D-45 BTR	2	040S	050W	4301351234		Indian	Indian	OW	APD
2-2D-45 BTR	2	040S	050W	4301351235		Indian	Indian	OW	APD
10-26-35 BTR	26	030S	050W	4301351248		Indian	Fee	OW	APD
LC TRIBAL 1H-33-46	33	040S	060W	4301351257		Indian	Fee	OW	APD
LC TRIBAL 9-25D-46	25	040S	060W	4301351276		Indian	Indian	OW	APD
LC TRIBAL 8H-30-45	30	040S	050W	4301351277		Indian	Indian	OW	APD
LC TRIBAL 16H-30-45	30	040S	050W	4301351279		Indian	Indian	OW	APD
LC TRIBAL 13-30D-45	30	040S	050W	4301351282		Indian	Indian	OW	APD
LC TRIBAL 16H-36-46	36	040S	060W	4301351291		Indian	Indian	OW	APD
LC TRIBAL 13H-30-46	30	040S	060W	4301351321		Indian	Indian	OW	APD
LC TRIBAL 13H-31-46	31	040S	060W	4301351326		Indian	Indian	OW	APD
LC TRIBAL 16-31D-46	31	040S	060W	4301351328		Indian	Indian	OW	APD
LC TRIBAL 5H-26-47	26	040S	070W	4301351337		Indian	Indian	OW	APD
LC TRIBAL 5H-19-45	20	040S	050W	4301351349		Indian	Indian	OW	APD
LC TRIBAL 16-36D-47	36	040S	070W	4301351363		Indian	Indian	OW	APD
15-4D-47 BTR	4	040S	070W	4301351377		Indian	Fee	OW	APD
16-23D-46 LC TRIBAL	23	040S	060W	4301351396		Indian	Fee	OW	APD
15-2D-36 BTR	2	030S	060W	4301351419		Indian	Fee	OW	APD
16-23D-37 BTR	23	030S	070W	4301351420		Indian	Fee	OW	APD
11-9D-47 BTR	9	040S	070W	4301351422		Indian	Fee	OW	APD
15-13D-47 BTR	13	040S	070W	4301351424		Indian	Indian	OW	APD
LC TRIBAL 15-19D-46	19	040S	060W	4301351426		Indian	Indian	OW	APD
16-13D-45 BTR	13	040S	050W	4301351428		Indian	Indian	OW	APD



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

14-12D-45 BTR	12	040S	050W	4301351444		Indian	Indian	OW	APD
16-14D-45 BTR	14	040S	050W	4301351445		Indian	Indian	OW	APD
5-13D-45 BTR	13	040S	050W	4301351446		Indian	Indian	OW	APD
LC TRIBAL 16-26D-46	26	040S	060W	4301351450		Indian	State	OW	APD
LC TRIBAL 16-34D-46	34	040S	060W	4301351451		Indian	State	OW	APD
16-12D-45 BTR	12	040S	050W	4301351452		Indian	Indian	OW	APD
8-12D-45 BTR	12	040S	050W	4301351453		Indian	Indian	OW	APD
LC TRIBAL 1-35D-46	35	040S	060W	4301351454		Indian	Fee	OW	APD
16-25D-37 BTR	25	030S	070W	4301351455		Indian	Fee	OW	APD
LC TRIBAL 13H-29-46	28	040S	060W	4301351462		Indian	Fee	OW	APD
LC TRIBAL 14-30D-37	30	030S	070W	4301351494		Indian	Fee	OW	APD
7-13D-45 BTR	13	040S	050W	4301351497		Indian	Indian	OW	APD
LC TRIBAL 4H-35-46	35	040S	060W	4301351515		Indian	Fee	OW	APD
LC TRIBAL 13H-19-46	19	040S	060W	4301351543		Indian	Indian	OW	APD
16-26D-37 BTR	26	030S	070W	4301351598		Indian	Fee	OW	APD
LC TRIBAL 16-31D-37	31	030S	070W	4301351610		Indian	Fee	OW	APD
5-4-35 BTR	4	030S	050W	4301351613		Indian	Fee	OW	APD
LC TRIBAL 16-31D-47	31	040S	070W	4301351616		Indian	Indian	OW	APD
LC TRIBAL 13H-31-47	31	040S	070W	4301351617		Indian	Indian	OW	APD
LC TRIBAL 13-32D-47	32	040S	070W	4301351619		Indian	Indian	OW	APD
LC TRIBAL 16H-32-47	32	040S	070W	4301351620		Indian	Indian	OW	APD
LC TRIBAL 1-32D-47	32	040S	070W	4301351624		Indian	Indian	OW	APD
LC TRIBAL 4H-32-47	32	040S	070W	4301351625		Indian	Indian	OW	APD
LC TRIBAL 13-28D-47	28	040S	070W	4301351627		Indian	Indian	OW	APD
LC TRIBAL 13H-29-47	28	040S	070W	4301351628		Indian	Indian	OW	APD
LC TRIBAL 16H-28-47	28	040S	070W	4301351629		Indian	Indian	OW	APD
LC TRIBAL 1-28D-47	28	040S	070W	4301351639		Indian	Indian	OW	APD
LC TRIBAL 1H-27-47	28	040S	070W	4301351640		Indian	Indian	OW	APD
LC TRIBAL 4H-28-47	28	040S	070W	4301351641		Indian	Indian	OW	APD
LC TRIBAL 7-25D-58	25	050S	080W	4301351643		Indian	Indian	OW	APD
LC TRIBAL 6-25D-58	25	050S	080W	4301351644		Indian	Indian	OW	APD
LC TRIBAL 13H-24-58	24	050S	080W	4301351645		Indian	Indian	OW	APD
LC TRIBAL 16-24D-58	24	050S	080W	4301351646		Indian	Indian	OW	APD
LC Tribal 8-23D-46	23	040S	060W	4301351654		Indian	Fee	OW	APD
LC Tribal 16-35D-45	35	040S	050W	4301351656		Indian	Fee	OW	APD
LC Tribal 13H-35-45	35	040S	050W	4301351657		Indian	Fee	OW	APD
LC Tribal 16-36D-45	36	040S	050W	4301351658		Indian	Fee	OW	APD
LC Tribal 13H-36-45	36	040S	050W	4301351659		Indian	Fee	OW	APD
LC Tribal 5-36D-45	36	040S	050W	4301351661		Indian	Fee	OW	APD
LC Tribal 8-26D-46	26	040S	060W	4301351663		Indian	Fee	OW	APD
3-29D-36 BTR	29	030S	060W	4301351665		Indian	Fee	OW	APD



From: Bill Barrett Corporation

To: Rig II, LLC

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LC Tribal 5-35D-45	35	040S	050W	4301351666	Indian	Fee	OW	APD
LC Tribal 5-24D-46	24	040S	060W	4301351668	Indian	Indian	OW	APD
LC TRIBAL 6-12D-58	12	050S	080W	4301351696	Indian	Indian	OW	APD
LC TRIBAL 8-12D-58	12	050S	080W	4301351697	Indian	Indian	OW	APD
LC TRIBAL 16H-22-47	21	040S	070W	4301351700	Indian	Indian	OW	APD
5-25D-37 BTR	25	030S	070W	4301351803	Indian	Fee	OW	APD
8-3D-36 BTR	3	030S	060W	4301351804	Indian	Fee	OW	APD
14-26D-37 BTR	26	030S	070W	4301351805	Indian	Fee	OW	APD
9-4-35 BTR	4	030S	050W	4301351806	Indian	Fee	OW	APD
11-4D-35 BTR	4	030S	050W	4301351807	Indian	Fee	OW	APD
16-27D-37 BTR	27	030S	070W	4301351808	Indian	Fee	OW	APD
14-27D-37 BTR	27	030S	070W	4301351809	Indian	Fee	OW	APD
14-16D-46 BTR	16	040S	060W	4301351812	Indian	Indian	OW	APD
LC Tribal 16-35D-48	35	040S	080W	4301351847	Indian	Indian	OW	APD
LC Tribal 13H-35-48	35	040S	080W	4301351848	Indian	Indian	OW	APD
LC Tribal 13-2D-58	11	050S	080W	4301351850	Indian	Indian	OW	APD
5-13D-36 BTR	13	030S	060W	4301351862	Indian	Fee	OW	APD
5-8D-36 BTR	8	030S	060W	4301351871	Indian	Fee	OW	APD
16-1D-36 BTR	1	030S	060W	4301351872	Indian	Fee	OW	APD
8-18D-46 BTR	18	040S	060W	4301351897	Indian	Fee	OW	APD
LC Tribal 5-36D-46	36	040S	060W	4301351905	Indian	Indian	OW	APD
LC Tribal 5-26D-45	26	040S	050W	4301351907	Indian	Indian	OW	APD
14-13D-45 BTR	13	040S	050W	4301351974	Indian	Indian	OW	APD
14-34D-46 DLB	34	040S	060W	4301351975	Indian	Fee	OW	APD
LC Tribal 5-21D-45	21	040S	050W	4301352001	Indian	Indian	OW	APD
LC Tribal 8-22D-45	22	040S	050W	4301352002	Indian	Indian	OW	APD
LC Tribal 8-25D-45	25	040S	050W	4301352007	Indian	Indian	OW	APD
LC Tribal 16-25D-45	25	040S	050W	4301352008	Indian	Indian	OW	APD
LC Tribal 16-22D-45	22	040S	050W	4301352009	Indian	Indian	OW	APD
LC Tribal 16-26D-45	26	040S	050W	4301352010	Indian	Indian	OW	APD
LC Tribal 14-31D-37	31	030S	070W	4301352016	Indian	Fee	OW	APD
5-12D-45 BTR	12	040S	050W	4301352030	Indian	Indian	OW	APD
LC Tribal 9-20D-45	20	040S	050W	4301352031	Indian	Indian	OW	APD
LC Tribal 13-35D-47	35	040S	070W	4301352055	Indian	Indian	OW	APD
LC Tribal 1-23D-47	23	040S	070W	4301352057	Indian	Indian	OW	APD
9-17D-46 BTR	17	040S	060W	4301352059	Indian	Indian	OW	APD
11-18D-46 BTR	18	040S	060W	4301352060	Indian	Indian	OW	APD
9-10D-47 BTR	10	040S	070W	4301352092	Indian	Fee	OW	APD
LC Tribal 1-17D-47	17	040S	070W	4301352096	Indian	Fee	OW	APD
7-35D-37 BTR	35	030S	070W	4301352115	Indian	Fee	OW	APD
14-25D-37 BTR	25	030S	070W	4301352116	Indian	Fee	OW	APD



From: Bill Barrett Corporation

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LC Tribal 5-25-46	25	040S	060W	4301352126	Indian	Indian	OW	APD
8-33D-35 BTR	33	030S	050W	4301352161	Indian	Fee	OW	APD
5-4D-36 BTR	4	030S	060W	4301352175	Indian	Fee	OW	APD
7-4D-36 BTR	4	030S	060W	4301352176	Indian	Fee	OW	APD
LC Tribal 4-36D-47	36	040S	070W	4301352186	Indian	Indian	OW	APD
LC Tribal 4-22D-46	22	040S	060W	4301352944	Indian	Indian	OW	APD
LC Tribal 16-22D-46	22	040S	060W	4301352945	Indian	Indian	OW	APD
LC Tribal 11-19D-46	19	040S	060W	4301352946	Indian	Indian	OW	APD
LC Tribal 7-20D-45	20	040S	050W	4301352947	Indian	Indian	OW	APD
15-11D-35 BTR	11	030S	050W	4301353056	Indian	Fee	OW	APD
13-11D-35 BTR	11	030S	050W	4301353057	Indian	Fee	OW	APD
BTR 16-36D-37	36	030S	070W	4301353059	Indian	Fee	OW	APD
4-29D-35 BTR	30	030S	050W	4301353060	Indian	Fee	OW	APD
1-30D-35 BTR	30	030S	050W	4301353061	Fee	Fee	OW	APD
LC TRIBAL 3-23D-46	23	040S	060W	4301353066	Indian	State	OW	APD
LC Tribal 14-23D-46	23	040S	060W	4301353067	Indian	State	OW	APD
LC Tribal 13-25D-46	25	040S	060W	4301353068	Indian	Indian	OW	APD
LC Tribal 14-26D-46	26	040S	060W	4301353069	Indian	State	OW	APD
LC Tribal 5-26D-46	26	040S	060W	4301353070	Indian	State	OW	APD
LC Tribal 11-35D-45	35	040S	050W	4301353071	Indian	State	OW	APD
LC Tribal 7-35D-45	35	040S	050W	4301353072	Indian	State	OW	APD
LC Tribal 3-35D-45	35	040S	050W	4301353075	Indian	State	OW	APD
LC Tribal 14-36D-45	36	040S	050W	4301353076	Indian	State	OW	APD
LC Tribal 13-36D-45	36	040S	050W	4301353077	Indian	State	OW	APD
LC Tribal 10-36D-45	36	040S	050W	4301353078	Indian	State	OW	APD
LC Tribal 8-36D-45	36	040S	050W	4301353079	Indian	State	OW	APD
LC Tribal 6-36D-45	36	040S	050W	4301353080	Indian	State	OW	APD
LC Tribal 1-34D-46	34	040S	060W	4301353081	Indian	State	OW	APD
LC Tribal 9-27D-46	27	040S	060W	4301353082	Indian	State	OW	APD
LC Tribal 13-35D-45	35	040S	050W	4301353083	Indian	State	OW	APD
LC Tribal 8-35D-45	35	040S	050W	4301353084	Indian	State	OW	APD
LC Tribal 15-35D-45	35	040S	050W	4301353085	Indian	State	OW	APD
LC Tribal 12-25D-45	25	040S	050W	4301353122	Indian	Indian	OW	APD
LC Tribal 14-25D-45	25	040S	050W	4301353123	Indian	Indian	OW	APD
LC Tribal 10-25D-45	25	040S	050W	4301353124	Indian	Indian	OW	APD
LC Tribal 11-26-45	26	040S	050W	4301353125	Indian	Indian	OW	APD
LC Tribal 13-26D-45	26	040S	050W	4301353126	Indian	Indian	OW	APD
LC Tribal 7-31D-46	31	040S	060W	4301353127	Indian	Indian	OW	APD
LC Tribal 7-19D-45	19	040S	050W	4301353128	Indian	Indian	OW	APD
LC Tribal 5-19D-45	19	040S	050W	4301353130	Indian	Indian	OW	APD
LC Tribal 7-25D-46	25	040S	060W	4301353132	Indian	Indian	OW	APD



From: Bill Barrett Corporation

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LC Tribal 7-24D-46	24	040S	060W	4301353134		Indian	Indian	OW	APD
LC Tribal 14-31D-46	31	040S	060W	4301353135		Indian	Indian	OW	APD
LC Tribal 14-30D-46	30	040S	060W	4301353136		Indian	Indian	OW	APD
13-4-35 BTR SWD	4	030S	050W	4301353293		Fee	Fee	OW	APD
LC FEE 14-26D-47	26	040S	070W	4301353294		Fee	Indian	OW	APD
LC Fee 5-25D-47	25	040S	070W	4301353295		Fee	Indian	OW	APD
7-35-46 LC SWD	35	040S	060W	4301353296		Fee	Fee	OW	APD
LC Fee 1H-33-47	32	040S	070W	4301353309		Fee	Indian	OW	APD
LC FEE 14-2D-58	2	050S	080W	4301353312		Fee	Indian	OW	APD
LC FEE 13H-21-47	21	040S	070W	4301353313		Fee	Indian	OW	APD
LC Fee 16-21D-47	21	040S	070W	4301353326		Fee	Indian	OW	APD
16-7D-46 BTR	7	040S	060W	4301353328		Fee	Indian	OW	APD
LC Fee 15-26D-47	26	040S	070W	4301353331		Fee	Indian	OW	APD
LC Fee 4-24D-47	23	040S	070W	4301353332		Fee	Indian	OW	APD
LC Fee 5-34D-47	34	040S	070W	4301353333		Fee	Indian	OW	APD
LC Fee 5-35D-47	35	040S	070W	4301353334		Fee	Indian	OW	APD
13-34D-47 LC Fee	34	040S	070W	4301353337		Fee	Indian	OW	APD
14-35D-35 BTR	35	030S	050W	4301352120		Fee	Fee	OW	DRL
6-17D-46 BTR	17	040S	060W	4301351078		Indian	Indian	OW	OPS
5-34D-35 BTR	34	030S	050W	4301351187		Indian	Fee	OW	OPS
5-10D-45 BTR	10	040S	050W	4301351221		Indian	Indian	OW	OPS
5-3D-45 BTR	3	040S	050W	4301351810		Indian	Indian	OW	OPS
9-34D-35 BTR	34	030S	050W	4301352117		Fee	Fee	OW	OPS
5-35D-35 BTR	35	030S	050W	4301352118		Fee	Fee	OW	OPS
1-2D-46 BTR	2	040S	060W	4301353086		Indian	Fee	OW	OPS
7-21-46 DLB	21	040S	060W	4301333567	16526	Indian	Indian	OW	P
LC TRIBAL 1H-27-46	27	040S	060W	4301333568	18175	Indian	Fee	GW	P
7-29-46 DLB	29	040S	060W	4301333584	17603	Indian	Fee	GW	P
LC TRIBAL 12H-28-46	28	040S	060W	4301333631	18132	Indian	Indian	GW	P
LC TRIBAL 13H-21-46	21	040S	060W	4301333632	18107	Indian	Indian	GW	P
12-36-36 BTR	36	030S	060W	4301333638	16336	Indian	Fee	GW	P
5-5-46 BTR	5	040S	060W	4301333639	16542	Indian	Fee	OW	P
5-23-36 BTR	23	030S	060W	4301333642	16675	Indian	Fee	GW	P
14-29-36 BTR	29	030S	060W	4301333643	16725	Indian	Fee	OW	P
14-30-36 BTR	30	030S	060W	4301333644	16701	Indian	Fee	GW	P
7-20-46 DLB	20	040S	060W	4301333657	16584	Indian	Indian	OW	P
LC TRIBAL 5-21D-46	21	040S	060W	4301333658	18887	Indian	Indian	OW	P
5-20-46 DLB	20	040S	060W	4301333659	18750	Indian	Indian	GW	P
LC TRIBAL 13H-20-46	20	040S	060W	4301333678	17979	Indian	Indian	GW	P
14-7-46 BTR	7	040S	060W	4301333806	16890	Indian	Indian	GW	P
7-8-45 BTR	8	040S	050W	4301333820	16974	Indian	Indian	OW	P



From: Bill Barrett Corporation

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1-5-45 BTR	5	040S	050W	4301333868	16931	Indian	Indian	OW	P
5-16-36 BTR	16	030S	060W	4301333970	17195	Indian	Fee	OW	P
5-29-36 BTR	29	030S	060W	4301333972	17557	Indian	Fee	OW	P
4-30-36 BTR	30	030S	060W	4301333973	17249	Indian	Fee	OW	P
7-19-46 DLB	19	040S	060W	4301334004	19018	Indian	Indian	OW	P
5-25-36 BTR	25	030S	060W	4301334021	17126	Fee	Fee	OW	P
5-4-45 BTR	4	040S	050W	4301334089	17507	Indian	Indian	OW	P
13-2-46 BTR	2	040S	060W	4301334090	18618	Indian	Indian	OW	P
2-3-45 BTR	3	040S	050W	4301334099	17932	Indian	Indian	OW	P
7-6-45 BTR	6	040S	050W	4301334100	17653	Indian	Indian	OW	P
1-9-45 BTR	9	040S	050W	4301334101	17910	Indian	Indian	OW	P
8-10-45 BTR	10	040S	050W	4301334102	17530	Indian	Indian	OW	P
7-17-45 BTR	17	040S	050W	4301334104	17933	Indian	Indian	OW	P
16-7-45 BTR	7	040S	050W	4301334111	17665	Indian	Indian	OW	P
15-18-45 BTR	18	040S	050W	4301334112	17832	Indian	Indian	OW	P
6-12-46 BTR	12	040S	060W	4301334114	17964	Indian	Indian	OW	P
5-13-46 BTR	13	040S	060W	4301334115	17833	Indian	Indian	OW	P
16-26-36 BTR	26	030S	060W	4301334132	18028	Indian	Fee	OW	P
1-23-36 BTR	23	030S	060W	4301334136	17722	Indian	Fee	OW	P
15-10-36 BTR	10	030S	060W	4301334277	17419	Indian	Fee	OW	P
14-5-46 BTR	5	040S	060W	4301350307	17624	Fee	Fee	OW	P
14X-22-46 DLB	22	040S	060W	4301350351	17604	Indian	Indian	OW	P
16-13-36 BTR	13	030S	060W	4301350372	17853	Indian	Fee	OW	P
5-33-46 DLB	33	040S	060W	4301350397	17765	Indian	Fee	OW	P
5-34-46 DLB	34	040S	060W	4301350415	17801	Indian	State	GW	P
LC FEE 12H-32-46	32	040S	060W	4301350431	18003	Fee	Fee	OW	P
1-13D-47 BTR	13	040S	070W	4301350445	18205	Indian	Fee	OW	P
16-8D-45 BTR	8	040S	050W	4301350466	18799	Indian	Indian	OW	P
7-13D-46 BTR	13	040S	060W	4301350470	18076	Indian	Indian	OW	P
14-8D-45 BTR	8	040S	050W	4301350567	18207	Indian	Indian	OW	P
14-5D-45 BTR	5	040S	050W	4301350568	18108	Indian	Indian	OW	P
16-31D-36 BTR	31	030S	060W	4301350573	18004	Indian	Fee	OW	P
5-7D-46 BTR	7	040S	060W	4301350574	18176	Indian	Indian	OW	P
LC TRIBAL 13H-33-46	34	040S	060W	4301350575	18223	Indian	State	OW	P
5-8-45 BTR	8	040S	050W	4301350607	18279	Indian	Indian	OW	P
16-6D-45 BTR	6	040S	050W	4301350610	18177	Indian	Indian	OW	P
5-18D-45 BTR	18	040S	050W	4301350611	18300	Indian	Indian	OW	P
7-26-37 BTR	26	030S	070W	4301350641	18131	Indian	Fee	OW	P
3-11D-36 BTR	11	030S	060W	4301350642	18299	Indian	Fee	OW	P
16-1D-46 BTR	1	040S	060W	4301350675	18525	Indian	Indian	OW	P
14-3-45 BTR	3	040S	050W	4301350676	18363	Indian	Indian	OW	P



From: Bill Barrett Corporation

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4-17D-45 BTR	17	040S	050W	4301350687	18517	Indian	Indian	OW	P
5-6D-45 BTR	6	040S	050W	4301350688	18726	Indian	Indian	OW	P
7-7D-45 BTR	7	040S	050W	4301350689	18380	Indian	Indian	OW	P
14-10D-45 BTR	10	040S	050W	4301350754	18447	Indian	Indian	OW	P
14-9D-45 BTR	9	040S	050W	4301350755	18379	Indian	Indian	OW	P
13-16D-36 BTR	16	030S	060W	4301350757	18206	Indian	State	OW	P
5-9D-36 BTR	9	030S	060W	4301350843	18381	Indian	Fee	OW	P
16-5D-46 BTR	5	040S	060W	4301350844	18280	Fee	Fee	OW	P
5-27D-37 BTR	27	030S	070W	4301350847	18526	Indian	Fee	OW	P
7-4D-45 BTR	4	040S	050W	4301350884	18562	Indian	Indian	OW	P
2-16D-45 BTR	16	040S	050W	4301350899	18619	Indian	Indian	OW	P
16-10D-45 BTR	10	040S	050W	4301350902	18725	Indian	Indian	OW	P
5-2D-36 BTR	2	030S	060W	4301350913	18886	Indian	Fee	OW	P
13H-27-36 BTR	27	030S	060W	4301350918	18445	Indian	State	OW	P
8-16D-46 BTR	16	040S	060W	4301350953	19027	Indian	Indian	OW	P
16-16D-46 BTR	16	040S	060W	4301350956	19028	Indian	Indian	OW	P
16-9D-45 BTR	9	040S	050W	4301350962	18662	Indian	Indian	OW	P
14-31D-36 BTR	31	030S	060W	4301350973	18524	Indian	Fee	OW	P
5-10D-36 BTR	10	030S	060W	4301350978	18989	Indian	Fee	OW	P
1-32D-36 BTR	32	030S	060W	4301350979	18648	Indian	Fee	OW	P
16-12D-36 BTR	12	030S	060W	4301350980	18748	Indian	Fee	OW	P
2-18D-45 BTR	18	040S	050W	4301350991	18776	Indian	Indian	OW	P
3-1-46 BTR	1	040S	060W	4301351017	18777	Indian	Fee	OW	P
10-5-45 BTR	5	040S	050W	4301351062	18724	Indian	Indian	OW	P
12-4D-45 BTR	4	040S	050W	4301351063	18813	Indian	Indian	OW	P
1-10D-45 BTR	10	040S	050W	4301351064	18966	Indian	Indian	OW	P
16-2D-46 BTR	2	040S	060W	4301351079	18830	Indian	Indian	OW	P
9H-4-45 BTR	4	040S	050W	4301351092	18814	Indian	Indian	OW	P
12-17-45 BTR	17	040S	050W	4301351097	18984	Indian	Indian	OW	P
5-9D-46 BTR	9	040S	060W	4301351109	19313	Indian	Fee	OW	P
14-9D-36 BTR	9	030S	060W	4301351144	19004	Indian	Fee	OW	P
5-31D-36 BTR	31	030S	060W	4301351146	18691	Indian	Fee	OW	P
4-9D-45 BTR	9	040S	050W	4301351157	18883	Indian	Indian	OW	P
8-12D-46 BTR	12	040S	060W	4301351159	18911	Indian	Indian	OW	P
LC TRIBAL 16-23D-47	23	040S	070W	4301351180	18617	Indian	Indian	OW	P
14-7D-45 BTR	7	040S	050W	4301351222	18949	Indian	Indian	OW	P
5-16D-45 BTR	16	040S	050W	4301351223	18987	Indian	Indian	OW	P
4-5D-45 BTR	5	040S	050W	4301351242	18882	Indian	Indian	OW	P
LC TRIBAL 16H-19-45	19	040S	050W	4301351278	18627	Indian	Indian	OW	P
LC TRIBAL 13-19D-45	19	040S	050W	4301351280	18628	Indian	Indian	OW	P
LC TRIBAL 5-30D-45	30	040S	050W	4301351281	19448	Indian	Indian	OW	P



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LC TRIBAL 15-24D-46	24	040S	060W	4301351283	18626	Indian	Indian	OW	P
LC TRIBAL 13H-24-46	19	040S	050W	4301351289	18629	Indian	Indian	OW	P
7-16-47 BTR	16	040S	070W	4301351296	18950	Indian	Fee	OW	P
14-18D-45 BTR	18	040S	050W	4301351313	19005	Indian	Indian	OW	P
LC TRIBAL 16-30D-46	30	040S	060W	4301351320	19006	Indian	Indian	OW	P
LC TRIBAL 5-20D-45	20	040S	050W	4301351331	19449	Indian	Indian	OW	P
11-8D-46 BTR	8	040S	060W	4301351336	19314	Indian	Indian	OW	P
5-7D-45 BTR	7	040S	050W	4301351350	18951	Indian	Indian	OW	P
7-5-35 BTR	5	030S	050W	4301351599	19078	Indian	Fee	OW	P
13-5D-35 BTR	5	030S	050W	4301351600	18996	Indian	Fee	OW	P
11-5D-35 BTR	5	030S	050W	4301351601	19061	Fee	Fee	OW	P
15-5D-35 BTR	5	030S	050W	4301351602	19062	Fee	Fee	OW	P
9-5D-35 BTR	5	030S	050W	4301351609	19029	Indian	Fee	OW	P
3-5D-35 BTR	5	030S	050W	4301351638	19079	Indian	Fee	OW	P
7-8-46 BTR	8	040S	060W	4301351702	19315	Indian	Indian	OW	P
7-30-46 DLB	30	040S	060W	4301351703	18997	Fee	Indian	OW	P
3-13D-46 BTR	13	040S	060W	4301351718	18881	Indian	Indian	OW	P
2-13D-46 BTR	13	040S	060W	4301351719	18885	Indian	Indian	OW	P
12-12D-46 BTR	12	040S	060W	4301351720	18867	Indian	Indian	OW	P
10-12D-46 BTR	12	040S	060W	4301351721	18856	Indian	Indian	OW	P
11-11D-47 BTR	11	040S	070W	4301352091	19633	Fee	Fee	OW	P
7-12D-47 BTR	12	040S	070W	4301352094	19600	Indian	Fee	OW	P
5-12D-47 BTR	12	040S	070W	4301352095	19634	Indian	Fee	OW	P
14-33D-35 BTR	33	030S	050W	4301352162	19450	Indian	Fee	OW	P
16-33D-35 BTR	33	030S	050W	4301352163	19451	Indian	Fee	OW	P
14-22-46 DLB	22	040S	060W	4301333660	17604	Indian	Indian	D	PA
13H-31-36 BTR	31	030S	060W	4301350465	18485	Indian	Fee	OW	PA
16X-23D-36 BTR	23	030S	060W	4301350623	18007	Indian	State	OW	PA
8-6-45 BTR	6	040S	050W	4301350900	18561	Indian	Indian	OW	PA
13-13-36 BTR	13	030S	060W	4301350919	18364	Indian	Fee	OW	PA
7-28-46 DLB	28	040S	060W	4301333569	16460	Indian	Indian	OW	S
5-21-36 BTR	21	030S	060W	4301333641	16674	Indian	Fee	GW	S
13-26-36 BTR	26	030S	060W	4301333980	17569	Indian	Fee	OW	S
14-1-46 BTR	1	040S	060W	4301334113	18516	Indian	Indian	OW	S
16-21-36 BTR	21	030S	060W	4301334130	17721	Indian	Fee	OW	S
14-21-36 BTR	21	030S	060W	4301334131	18006	Indian	Fee	OW	S
7-16-36 BTR	16	030S	060W	4301334133	17834	Indian	Fee	OW	S
1-30-36 BTR	30	030S	060W	4301334134	17905	Indian	Fee	OW	S
16-30-36 BTR	30	030S	060W	4301334135	18005	Indian	Fee	OW	S
3-23-36 BTR	23	030S	060W	4301334137	17860	Indian	Fee	OW	S
16-16-36 BTR	16	030S	060W	4301334138	17666	Indian	Fee	OW	S



From: Bill Barrett Corporation

To: Rig II, LLC

Effective 11/1/2016

4-26-36 BTR	26	030S	060W	4301334139	17620	Fee	Fee	OW	S
9-11-36 BTR	11	030S	060W	4301334276	17451	Indian	Fee	OW	S
3-36-36 BTR	36	030S	060W	4301350398	17955	Indian	Fee	OW	S
7-10-36 BTR	10	030S	060W	4301350437	18052	Indian	Fee	OW	S
16-12D-46 BTR	12	040S	060W	4301350467	18051	Indian	Indian	OW	S
13H-13-46 BTR	13	040S	060W	4301350468	18208	Indian	Indian	OW	S
13-12-46 BTR	12	040S	060W	4301350469	18233	Indian	Indian	OW	S
14-8D-36 BTR	8	030S	060W	4301350612	18163	Indian	Fee	OW	S
14-7D-36 BTR	7	030S	060W	4301350613	18330	Indian	Fee	OW	S
16-9-36 BTR	9	030S	060W	4301350645	18078	Indian	Fee	OW	S
7-27-37 BTR	27	030S	070W	4301350647	18090	Indian	Fee	OW	S
16-12D-37 BTR	12	030S	070W	4301350785	18446	Indian	Fee	OW	S
14-21D-37 BTR	21	030S	070W	4301350859	18548	Indian	Fee	OW	S
10-18D-36 BTR	18	030S	060W	4301350915	18884	Indian	Fee	OW	S
5-27D-36	27	030S	060W	4301350917	18482	Indian	State	OW	S
10-36D-36 BTR	36	030S	060W	4301351005	18523	Indian	Fee	OW	S
14-6D-45 BTR	6	040S	050W	4301351158	18967	Indian	Indian	OW	S
5H-1-46 BTR UTELAND BUTTE	6	040S	050W	4301351215	18728	Indian	Indian	OW	S
5H-1-46 BTR WASATCH	6	040S	050W	4301351216	18727	Indian	Indian	OW	S
1-25D-36 BTR	25	030S	060W	4301351294	18798	Indian	Fee	OW	S
5-5D-35 BTR	5	030S	050W	4301351605	19055	Indian	Fee	OW	S
16-23-36 BTR	23	030S	060W	4301333971	17182	Indian	Fee	OW	TA
LC TRIBAL 14-23D-47	23	040S	070W	4301334022	18616	Indian	Indian	OW	TA
5-32D-36 BTR	32	030S	060W	4301350756	18328	Indian	Fee	OW	TA





October 20, 2016

Re: Bill Barrett Corporation Transfer to New Operator

Dear Ms. Medina:

Attached please find the change of operation Form 9, Form 5's and Request to Transfer APD form changing the operator from Bill Barrett Corporation to RIG II, LLC, effective 11/1/2016. Badlands Energy – Utah, LLC will be a sub-operator.

**New Operator Contact information:**

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
Telephone: (801) 683-4245  
Fax: (801) 298-9889

Upon reviewing the attached, please contact myself with any questions at 303-312-8115.

Sincerely,

Bill Barrett Corporation

Brady Riley  
Permit Analyst

**RECEIVED**  
OCT 21 2016  
DIV. OF OIL, GAS & MINING



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:  
(see attached well list)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:  
N/A

7. UNIT or CA AGREEMENT NAME:

8. WELL NAME and NUMBER:  
(see attached well list)

9. API NUMBER:

10. FIELD AND POOL, OR WILDCAT:

1. TYPE OF WELL  
OIL WELL ☒ GAS WELL ☐ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
RIG II, LLC N4055

3. ADDRESS OF OPERATOR:  
1582 West 2600 South CITY Wood Cross STATE UT ZIP 84087 PHONE NUMBER: (801) 683-4245

4. LOCATION OF WELL  
FOOTAGES AT SURFACE: (see attached well list)

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 11/1/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

RIG II, LLC IS SUBMITTING THIS SUNDRY AS NOTIFICATION THAT THE WELLS LISTED ON THE ATTACHED LIST HAVE BEEN SOLD TO RIG II, LLC BY BILL BARRETT CORPORATION EFFECTIVE 11/1/2016. PLEASE REFER ALL FUTURE CORRESPONDENCE TO THE ADDRESS BELOW.

RIG II, LLC  
1582 West 2600 South  
Woods Cross, Utah 84087-0298  
801-683-4245  
(STATE/FEE BOND # 9219529/ BLM BOND # UTB000712/ BIA BOND # LPM9224670)

BILL BARRETT CORPORATION N4165  
Duane Zavala NAME (PLEASE PRINT)  
Duane Zavala SIGNATURE  
Senior Vice President -  
EH&S, Government and Regulatory Affairs

RIG II, LLC  
Jesse McSwain NAME (PLEASE PRINT)  
Jesse McSwain SIGNATURE  
Manager

NAME (PLEASE PRINT) Jesse McSwain  
SIGNATURE Jesse McSwain  
TITLE Manager  
DATE 10/20/16

(This space for State use only)

APPROVED

NOV 07 2016



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**Request to Transfer Application or Permit to Drill**

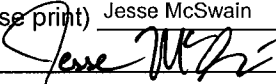
(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

<b>Well name:</b>	(See attached list)
<b>API number:</b>	
<b>Location:</b>	Qtr-Qtr:                      Section:                      Township:                      Range:
<b>Company that filed original application:</b>	Bill Barrett Corporation
<b>Date original permit was issued:</b>	
<b>Company that permit was issued to:</b>	Bill Barrett Corporation

Check one	Desired Action:
<input type="checkbox"/>	<b>Transfer pending (unapproved) Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	<b>Transfer approved Application for Permit to Drill to new operator</b>
	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <small>9219529-LUDGM / UTB000712-BLM / LPM9224670-BIA</small>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Jesse McSwain Title Manager  
Signature  Date 10/20/16  
Representing (company name) RIG II, LLC

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

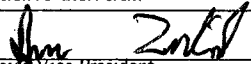
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

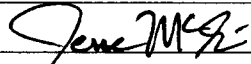
Well Name and Number <b>6-32-36 BTR SWD</b>	API Number <b>4301350921</b>
Location of Well  Footage : <b>1628 FNL 1553 FWL</b> County : <b>DUCHENSE</b>  QQ, Section, Township, Range: <b>SENW    32    3S    6W</b> State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

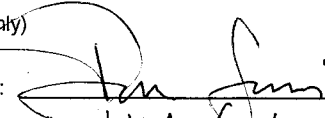
**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadii</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President -</u>
Phone: <u>(303) 293-9100</u>	Title: <u>EH&amp;S, Government and Regulatory Affairs</u>
Comments:	Date: <u>10/20/16</u>

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by:   
Title: UIC Geologist

Approval Date: 11/3/16

Comments:



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

UIC FORM 5

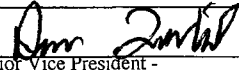
TRANSFER OF AUTHORITY TO INJECT

Well Name and Number 16-6D-46 BTR SWD	API Number 4301350781
Location of Well Footage : 0200 FSL 0099 FEL County : DUCHESNE QQ, Section, Township, Range: SESE 6 4S 6W State : UTAH	Field or Unit Name ALTAMONT Lease Designation and Number 20G0005608

EFFECTIVE DATE OF TRANSFER: 11/1/2016

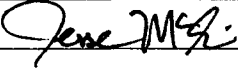
CURRENT OPERATOR

Company: BILL BARRETT CORPORATION  
Address: 1099 18th Street Ste 2300  
city DENVER state CO zip 80202  
Phone: (303) 293-9100  
Comments:


Name: Duane Zavadii  
Signature:   
Senior Vice President -  
Title: EH&S, Government and Regulatory Affairs  
Date: 10/20/16

NEW OPERATOR

Company: RIG II, LLC  
Address: 1582 West 2600 South  
city Wood Cross state UT zip 84087  
Phone: (801) 683-4245  
Comments:

Name: Jesse McSwain  
Signature:   
Title: Manager  
Date: 10/20/16

(This space for State use only)

Transfer approved by:   
Title: VIC

Approval Date: 11/3/16

Comments:



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

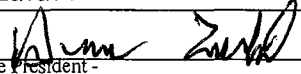
UIC FORM 5

**TRANSFER OF AUTHORITY TO INJECT**

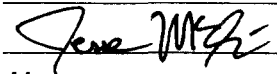
Well Name and Number <b>SWD 9-36 BTR</b>	API Number <b>4301350646</b>
Location of Well  Footage : <b>0539 FSL 0704 FEL</b>  County : <b>DUCHESNE</b>  QQ, Section, Township, Range: <b>SESE 9 3S 6W</b>  State : <b>UTAH</b>	Field or Unit Name <b>CEDAR RIM</b>  Lease Designation and Number <b>2OG0005608</b>

**EFFECTIVE DATE OF TRANSFER:** 11/1/2016

**CURRENT OPERATOR**

Company: <u>BILL BARRETT CORPORATION</u>	Name: <u>Duane Zavadi</u>
Address: <u>1099 18th Street Ste 2300</u>	Signature: <u></u>
city <u>DENVER</u> state <u>CO</u> zip <u>80202</u>	Title: <u>Senior Vice President - EH&amp;S, Government and Regulatory Affairs</u>
Phone: <u>(303) 293-9100</u>	Date: <u>10/20/16</u>
Comments:	

**NEW OPERATOR**

Company: <u>RIG II, LLC</u>	Name: <u>Jesse McSwain</u>
Address: <u>1582 West 2600 South</u>	Signature: <u></u>
city <u>Wood Cross</u> state <u>UT</u> zip <u>84087</u>	Title: <u>Manager</u>
Phone: <u>(801) 683-4245</u>	Date: <u>10/20/16</u>
Comments:	

(This space for State use only)

Transfer approved by: \_\_\_\_\_ Approval Date: \_\_\_\_\_

Title: \_\_\_\_\_

Comments:

*This well was approved by USEPA.  
EPA approval will be required.*